

# **United States Electrophysiology Mapping And Ablation Devices Market By Procedure Type (EP Ablation Procedures, Stand-Alone EP Diagnostic Procedures, Others), By Product (Mapping & Lab Systems, Diagnostic Catheters, Ablation Catheters, Accessory Devices, Others), By Region and Competition, Forecast & Opportunities, 2020-2030F**

<https://marketpublishers.com/r/U1B67FE50381EN.html>

Date: September 2025

Pages: 85

Price: US\$ 3,500.00 (Single User License)

ID: U1B67FE50381EN

## **Abstracts**

### Market Overview

United States Electrophysiology Mapping And Ablation Devices Market was valued at USD 9.47 Billion in 2024 and is expected to reach USD 12.91 Billion by 2030 with a CAGR of 5.50%. Electrophysiology (EP) mapping devices enable precise identification of irregular electrical pathways in the heart, while ablation devices provide minimally invasive treatment options by selectively destroying malfunctioning cardiac tissue.

The growth of this market in the U.S. is driven by several factors, including the rising prevalence of cardiovascular diseases, an aging population, and increasing awareness of advanced treatment options that offer improved patient outcomes. However, the market faces challenges including high device costs and the need for skilled operators to perform complex procedures. Despite these barriers, ongoing research and development, along with growing clinical evidence supporting the benefits of catheter-based electrophysiology interventions, are expected to drive robust growth.

### Key Market Drivers

#### Growth in Healthcare Industry

In 2023, U.S. healthcare spending grew by 7.5%, reaching USD 4.9 trillion, or approximately USD 14,570 per person. This expenditure accounted for 17.6% of the country's Gross Domestic Product (GDP). The robust growth of the healthcare industry in the United States is a key driver fueling the expansion of the electrophysiology (EP) mapping and ablation devices market. Increasing prevalence of cardiovascular diseases, particularly arrhythmias, combined with rising patient awareness and demand for minimally invasive treatment options, has amplified the need for advanced EP technologies.

Moreover, rising investments by hospitals and clinics in state-of-the-art electrophysiology labs enable the adoption of sophisticated mapping and ablation devices. Since 2006, private equity has invested nearly USD 1 trillion in U.S. healthcare. While representing a small share of the sector, these investments have been crucial funding research on diseases like Alzheimer's and Parkinson's, expanding and upgrading facilities, modernizing medical records and data, and supporting other essential improvements. As healthcare providers focus on improving patient outcomes and reducing procedural risks, the demand for innovative EP solutions continues to accelerate, making the expanding healthcare industry a critical growth enabler for this market.

## Key Market Challenges

### Shortage of Skilled Electrophysiologists

A significant challenge facing the United States Electrophysiology Mapping and Ablation Devices Market is the shortage of skilled electrophysiologists. The complexity of electrophysiology procedures demands highly trained and experienced specialists to accurately interpret mapping data and perform precise ablation treatments. However, the current supply of qualified electrophysiologists is insufficient to meet the growing demand driven by the rising prevalence of cardiac arrhythmias and expanding adoption of advanced mapping and ablation technologies.

This shortage creates operational bottlenecks in healthcare facilities, potentially leading to longer patient wait times, delayed treatments, and underutilization of sophisticated electrophysiology equipment. Furthermore, the limited availability of skilled professionals can increase procedural risks and impact overall treatment outcomes, which in turn affects market growth and device adoption.

## Key Market Trends

### Growing Use of Wearable Monitoring Devices

The increasing adoption of wearable monitoring devices is emerging as a significant trend within the U.S. electrophysiology mapping and ablation devices market. According to the 2023 Rock Health Digital Health Consumer Adoption Survey, 44% of Americans use wearable health tracking devices, including smartwatches and smart rings, to monitor various health metrics ranging from sleep patterns to heart rate. These devices enable continuous, real-time cardiac monitoring, allowing for early detection and precise diagnosis of arrhythmias outside traditional clinical settings.

Enhanced patient convenience and improved data accuracy offered by wearables facilitate better treatment planning and timely intervention, which complements electrophysiology mapping and ablation procedures. Integration of wearable technology with advanced analytics and remote monitoring platforms is driving innovation and expanding the scope of cardiac care. As both healthcare providers and patients prioritize proactive disease management, the growing use of wearable monitoring devices is expected to substantially influence market dynamics, promoting more personalized and efficient electrophysiological treatments.

## Key Market Players

Siemens Healthineers

Koninklijke Philips N.V.

Abbott Laboratories

Johnson & Johnson Services, Inc.

GE HealthCare

Boston Scientific Corporation

Medtronic Plc

Biotronik SE & Co KG

MicroPort Scientific Corporation

CardioFocus, Inc.

## Report Scope

In this report, the United States Electrophysiology Mapping And Ablation Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Electrophysiology Mapping And Ablation Devices Market, By Procedure Type:

EP Ablation Procedures

Stand-Alone EP Diagnostic Procedures

Others

United States Electrophysiology Mapping And Ablation Devices Market, By Product:

Mapping & Lab Systems

Diagnostic Catheters

Ablation Catheters

Accessory Devices

Others

United States Electrophysiology Mapping And Ablation Devices Market, By Region:

Northeast

Midwest

South

West

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the United States Electrophysiology Mapping And Ablation Devices Market.

## Available Customizations:

United States Electrophysiology Mapping And Ablation Devices Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

### **4. IMPACT OF COVID-19 ON UNITED STATES ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET**

### **5. UNITED STATES ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Procedure Type (EP Ablation Procedures, Stand-Alone EP Diagnostic Procedures, Others)

5.2.2. By Product (Mapping & Lab Systems, Diagnostic Catheters, Ablation Catheters, Accessory Devices, Others)

5.2.3. By Region

5.2.4. By Company (2024)

5.3. Market Map

## **6. NORTHEAST ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Procedure Type

6.2.2. By Product

## **7. MIDWEST ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET OUTLOOK**

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Procedure Type

7.2.2. By Product

## **8. SOUTH ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET OUTLOOK**

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Procedure Type

8.2.2. By Product

## **9. WEST ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET OUTLOOK**

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Procedure Type

9.2.2. By Product

## **10. MARKET DYNAMICS**

10.1. Drivers

10.2. Challenges

## **11. MARKET TRENDS & DEVELOPMENTS**

11.1. Merger & Acquisition (If Any)

11.2. Product Launches (If Any)

11.3. Recent Developments

## **12. DISRUPTIONS: CONFLICTS, PANDEMICS AND TRADE BARRIERS**

## **13. UNITED STATES ELECTROPHYSIOLOGY MAPPING AND ABLATION DEVICES MARKET: SWOT ANALYSIS**

## **14. PORTERS FIVE FORCES ANALYSIS**

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

15.1. Siemens Healthineers

15.1.1. Business Overview

15.1.2. Company Snapshot

15.1.3. Products & Services

15.1.4. Financials (As Reported)

15.1.5. Recent Developments

15.1.6. Key Personnel Details

15.1.7. SWOT Analysis

15.2. Koninklijke Philips N.V.

15.3. Abbott Laboratories

15.4. Johnson & Johnson Services, Inc.

15.5. GE HealthCare

15.6. Boston Scientific Corporation

15.7. Medtronic Plc

15.8. Biotronik SE & Co KG

15.9. MicroPort Scientific Corporation

15.10. CardioFocus, Inc.

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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