

# **Mapping Catheters Market Size, Share & Trends Analysis Report By Technology (High-Density (HD) Mapping, Contact Force Sensing), By Indication (AF, AFL, VT), By End Use, By Region, And Segment Forecasts, 2025 - 2030**

<https://marketpublishers.com/r/MC4EE9E26D38EN.html>

Date: April 2025

Pages: 90

Price: US\$ 5,950.00 (Single User License)

ID: MC4EE9E26D38EN

## **Abstracts**

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### **Mapping Catheters Market Growth & Trends**

The global mapping catheters market size is expected to reach USD 4.96 billion by 2030, registering a CAGR of 8.9% from 2025 to 2030, according to a new report by Grand View Research, Inc. The primary factors driving the market are the rising cases of CVD, increasing arrhythmia (AF) incidence, technological advancements, and government initiatives. According to the (HRS) Heart Rhythm Society article published in August 2023, Atrial fibrillation (AFib) affects nearly 40 million individuals globally, including 6 million in the United States, making it the most prevalent cardiac arrhythmia. Almost one in four adults over 40 face the risk of developing AFib, often without recognizing early symptoms; the demand for timely and accurate diagnosis is skyrocketing. This rising need fuels the market, as these tools are essential for pinpointing arrhythmic sites and guiding targeted treatment, ultimately improving patient outcomes and reducing the risk of serious complications like stroke and heart failure.

Technological advancements in mapping systems are driving market growth. For instance, in June 2024, New tools like multielectrode basket catheters and devices capable of mapping cardiac arteries and epicardial veins enable detailed three-dimensional visualization of cardiac activation sequences, even during vacuum therapy. Additionally, computerized non-contact mapping systems transform electrophysiology

by leveraging algorithms to reconstruct electrograms and create 3D isopotential maps without direct contact with the endocardial surface. These technological strides are complemented by remote monitoring and infection control improvements, which allow continuous heart rhythm assessment outside of hospital environments-enhancing patient safety, enabling timely therapeutic interventions, and minimizing risks associated with invasive procedures.

Moreover, the rising strategic initiatives by the market players fuel market growth. For instance, in May 2024, Biosense Webster, a Johnson & Johnson MedTech company and a global leader in treating cardiac arrhythmias, introduced CARTO 3 System Version 8, an advanced iteration of its 3D cardiac mapping platform. This upgrade enhances precision and procedural efficiency during catheter ablation treatments for arrhythmias like atrial fibrillation. Among the latest additions are the CARTO ELEVATE™ and CARTOSOUND™ FAM Modules, both developed to support electrophysiologists with improved accuracy, consistency, and workflow during complex ablation procedures.

### Mapping Catheters Market Report Highlights

The High-Density (HD) mapping segment held the largest share of over 49.3% in 2024. The increasing incidence of AF and technological advancement drives the segment growth. High-Density (HD) Mapping is a technique that captures detailed electrical signals from the heart for precise arrhythmia diagnosis and treatment

The Atrial Fibrillation (AF) segment held the largest share, over 66.8%, in 2024 due to the increasing incidence of AF, growing initiatives by key players, and technological advancements

The hospital segment held the largest share at 36.8% in 2024. Hospitals increasingly perform catheter procedures, reflecting the growing demand for advanced electrophysiological interventions

North America dominated the market, with a share of 40.4% in 2024, owing to the increasing prevalence of cardiac arrhythmia, including increasing cardiac procedures and technological advancements

Market players operating in the market include Abbott Laboratories, Acutus Medical, Inc., Johnson & Johnson, Medtronic, Boston Scientific Corporation,

Microport Scientific Corporation, Lepu Medical, Stereotaxis, Inc., and Koninklijke Philips N.V.

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