

Imaging Catheters Market Size, Share & Trends Analysis Report By End Use (Hospital, Diagnostic Imaging Center), By Technology (Intravascular Ultrasound Catheters, Angiography Catheters), By Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Imaging Catheters Market Size & Trends

The global imaging catheters market size was estimated at USD 1.45 billion in 2024 and is projected to grow at a CAGR of 4.92% from 2025 to 2030. This growth is attributed to the rising global burden of cardiovascular diseases, technological advancements such as AI-enhanced and saline-compatible imaging systems, and increasing demand for minimally invasive diagnostics, which are fueling market expansion. Factors such as an aging population, growing healthcare expenditures, and favorable regulatory approvals are expected to fuel market expansion further, making imaging catheters an essential component in modern interventional cardiology and vascular care. According to CDC data published in October 2024, heart disease remains the leading cause of death for men, women, and individuals across most racial and ethnic groups. On average, one person dies from cardiovascular disease every 33 seconds. In 2022, heart disease claimed the lives of 702,880 people, accounting for approximately 1 in every 5 deaths.

Cardiovascular diseases, including coronary artery disease, peripheral artery disease, heart failure, and cerebrovascular disease, require accurate and timely diagnosis for effective treatment. Imaging catheters are critical in diagnosing these conditions by providing real-time, high-resolution images of blood vessels. Techniques such as

angiography, optical coherence tomography, and intravascular ultrasound are commonly used to identify blockages, stenosis, plaques, and other abnormalities in the vascular system. As the prevalence of CVDs rises, the number of diagnostic and interventional procedures increases, directly driving demand for imaging catheters to assist in both diagnosis and treatment. The increasing incidence of CVDs underscores the need for early detection to prevent complications such as heart attacks, strokes, and limb amputations. Imaging catheters, particularly OCT and IVUS, provide detailed images of arterial walls and plaques, allowing for early identification of vulnerable plaques and evaluating arterial health before symptoms arise. Early detection enables timely intervention, vital for improving patient outcomes and reducing the need for more invasive treatments like bypass surgery. This growing focus on early diagnosis and intervention increases the demand for imaging catheters.

Global Imaging Catheters Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global imaging catheters market report based on technology, end use, and region:

Technology Outlook (Revenue, USD Million, 2018 - 2030)

Intravascular Ultrasound (IVUS) Catheters

Optical Coherence Tomography (OCT) Catheters

Angiography Catheters

Electrophysiology (EP) Catheters

Other Imaging Catheters

Use Outlook (Revenue, USD Million, 2018 - 2030)

Pre-Intervention Use

Post-Intervention Use

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Hospital

Diagnostic Imaging Center

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
 - 1.2.1. Technology
 - 1.2.2. End Use
- 1.3. Estimates and Forecast Timeline
- 1.4. Research Methodology
- 1.5. Information Procurement
 - 1.5.1. Purchased Database
 - 1.5.2. GVR's Internal Database
 - 1.5.3. Secondary Sources
 - 1.5.4. Primary Research
- 1.6. Information Analysis
 - 1.6.1. Data Analysis Models
- 1.7. Market Formulation & Data Visualization
- 1.8. Model Details
 - 1.8.1. Commodity Flow Analysis
- 1.9. List of Secondary Sources
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. IMAGING CATHETERS MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.1.1. Rising cardiovascular disease burden
 - 3.2.1.2. Growing preference for minimally invasive procedures
 - 3.2.1.3. Technological advancements in catheter imaging
 - 3.2.2. Market Restraint Analysis
 - 3.2.2.1. Product recalls

- 3.2.2.2. High cost of devices and procedures
- 3.2.3. Market Opportunities Analysis
 - 3.2.3.1. Expansion in emerging markets
 - 3.2.3.2. Increasing number of clinical trials
 - 3.2.3.3. Development of multifunctional and miniaturized catheters
- 3.2.4. Market Challenges Analysis
 - 3.2.4.1. Regulatory and approval delays
- 3.3. Business Environment Analysis
 - 3.3.1. Industry Analysis - Porter's Five Forces Analysis
 - 3.3.1.1. Supplier Power
 - 3.3.1.2. Buyer Power
 - 3.3.1.3. Substitution Threat
 - 3.3.1.4. Threat of New Entrants
 - 3.3.1.5. Competitive Rivalry
 - 3.3.2. PESTLE Analysis

CHAPTER 4. IMAGING CATHETERS MARKET: TECHNOLOGY BUSINESS ANALYSIS

- 4.1. Technology Market Share, 2024 & 2030
- 4.2. Technology Segment Dashboard
- 4.3. Market Size & Forecasts and Trend Analysis, by Technology, 2018 to 2030 (USD Million)
- 4.4. Intravascular Ultrasound (IVUS) Catheters
 - 4.4.1. Intravascular Ultrasound (IVUS) Catheters Market, 2018 - 2030 (USD Million)
- 4.5. Optical Coherence Tomography (OCT) Catheters
 - 4.5.1. Optical Coherence Tomography (OCT) Catheters Market, 2018 - 2030 (USD Million)
- 4.6. Angiography Catheters
 - 4.6.1. Angiography Catheters Market, 2018 - 2030 (USD Million)
- 4.7. Electrophysiology (EP) Catheters
 - 4.7.1. Electrophysiology (EP) Catheters Market, 2018 - 2030 (USD Million)
- 4.8. Other Imaging Catheters
 - 4.8.1. Other Imaging Catheters Market, 2018 - 2030 (USD Million)

CHAPTER 5. IMAGING CATHETERS MARKET: USE BUSINESS ANALYSIS

- 5.1. Use Market Share, 2024 & 2030
- 5.2. Use Segment Dashboard

5.3. Market Size & Forecasts and Trend Analysis, by Use, 2018 to 2030 (USD Million)

5.4. Pre-Intervention Use

5.4.1. Pre-Intervention Use Market, 2018 - 2030 (USD Million)

5.5. Post-Intervention Use

5.5.1. Post-Intervention Use Market, 2018 - 2030 (USD Million)

CHAPTER 6. IMAGING CATHETERS MARKET: END USE BUSINESS ANALYSIS

6.1. End Use Market Share, 2024 & 2030

6.2. End Use Segment Dashboard

6.3. Market Size & Forecasts and Trend Analysis, by End Use, 2018 to 2030 (USD Million)

6.4. Hospital

6.4.1. Hospitals Market, 2018 - 2030 (USD Million)

6.5. Clinics

6.5.1. Clinics Market, 2018 - 2030 (USD Million)

6.6. Diagnostic Imaging Center

6.6.1. Diagnostic Imaging Center Market, 2018 - 2030 (USD Million)

6.7. Others

6.7.1. Others Market, 2018 - 2030 (USD Million)

CHAPTER 7. IMAGING CATHETERS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS BY TECHNOLOGY AND END USE

7.1. Regional Market Share Analysis, 2024 & 2030

7.2. Regional Market Dashboard

7.3. Market Size, & Forecasts Trend Analysis, 2018 to 2030:

7.4. North America

7.4.1. North America Imaging Catheters Market Estimates And Forecasts, By Country, 2018 - 2030 (USD Million)

7.4.2. U.S.

7.4.2.1. Key Country Dynamics

7.4.2.2. Regulatory Framework

7.4.2.3. Competitive Insights

7.4.2.4. U.S. Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.4.3. Canada

7.4.3.1. Key Country Dynamics

7.4.3.2. Regulatory Framework

7.4.3.3. Competitive Insights

7.4.3.4. Canada Imaging Catheters Market Estimates And Forecasts, 2018 - 2030
(USD Million)

7.4.4. Mexico

7.4.4.1. Key Country Dynamics

7.4.4.2. Regulatory Framework

7.4.4.3. Competitive Insights

7.4.4.4. Mexico Imaging Catheters Market Estimates And Forecasts, 2018 - 2030
(USD Million)

7.5. Europe

7.5.1. Europe Imaging Catheters Market Estimates And Forecasts, By Country, 2018 - 2030 (USD Million)

7.5.2. UK

7.5.2.1. Key Country Dynamics

7.5.2.2. Regulatory Framework

7.5.2.3. Competitive Insights

7.5.2.4. UK Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.5.3. Germany

7.5.3.1. Key Country Dynamics

7.5.3.2. Regulatory Framework

7.5.3.3. Competitive Insights

7.5.3.4. Germany Imaging Catheters Market Estimates And Forecasts, 2018 - 2030
(USD Million)

7.5.4. France

7.5.4.1. Key Country Dynamics

7.5.4.2. Regulatory Framework

7.5.4.3. Competitive Insights

7.5.4.4. France Imaging Catheters Market Estimates And Forecasts, 2018 - 2030
(USD Million)

7.5.5. Italy

7.5.5.1. Key Country Dynamics

7.5.5.2. Regulatory Framework

7.5.5.3. Competitive Insights

7.5.5.4. Italy Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.5.6. Spain

7.5.6.1. Key Country Dynamics

7.5.6.2. Regulatory Framework

7.5.6.3. Competitive Insights

7.5.6.4. Spain Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.5.7. Norway

7.5.7.1. Key Country Dynamics

7.5.7.2. Regulatory Framework

7.5.7.3. Competitive Insights

7.5.7.4. Norway Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.5.8. Denmark

7.5.8.1. Key Country Dynamics

7.5.8.2. Regulatory Framework

7.5.8.3. Competitive Insights

7.5.8.4. Denmark Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.5.9. Sweden

7.5.9.1. Key Country Dynamics

7.5.9.2. Regulatory Framework

7.5.9.3. Competitive Insights

7.5.9.4. Sweden Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.6. Asia Pacific

7.6.1. Asia Pacific Imaging Catheters Market Estimates And Forecasts, By Country, 2018 - 2030 (USD Million)

7.6.2. Japan

7.6.2.1. Key Country Dynamics

7.6.2.2. Regulatory Framework

7.6.2.3. Competitive Insights

7.6.2.4. Japan Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.6.3. China

7.6.3.1. Key Country Dynamics

7.6.3.2. Regulatory Framework

7.6.3.3. Competitive Insights

7.6.3.4. China Imaging Catheters Market Estimates And Forecasts, 2018 - 2030

(USD Million)

7.6.4. India

7.6.4.1. Key Country Dynamics

7.6.4.2. Regulatory Framework

7.6.4.3. Competitive Insights

7.6.4.4. India Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.6.5. South Korea

7.6.5.1. Key Country Dynamics

7.6.5.2. Regulatory Framework

7.6.5.3. Competitive Insights

7.6.5.4. South Korea Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.6.6. Australia

7.6.6.1. Key Country Dynamics

7.6.6.2. Regulatory Framework

7.6.6.3. Competitive Insights

7.6.6.4. Australia Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.6.7. Thailand

7.6.7.1. Key Country Dynamics

7.6.7.2. Regulatory Framework

7.6.7.3. Competitive Insights

7.6.7.4. Thailand Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.7. Latin America

7.7.1. Latin America Imaging Catheters Market Estimates And Forecasts, By Country, 2018 - 2030 (USD Million)

7.7.2. Brazil

7.7.2.1. Key Country Dynamics

7.7.2.2. Regulatory Framework

7.7.2.3. Competitive Insights

7.7.2.4. Brazil Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.7.3. Argentina

7.7.3.1. Key Country Dynamics

7.7.3.2. Regulatory Framework

7.7.3.3. Competitive Insights

7.7.3.4. Argentina Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

7.8. MEA

7.8.1. MEA Imaging Catheters Market Estimates And Forecasts, By Country, 2018 - 2030 (USD Million)

- 7.8.2. South Africa
 - 7.8.2.1. Key Country Dynamics
 - 7.8.2.2. Regulatory Framework
 - 7.8.2.3. Competitive Insights
 - 7.8.2.4. South Africa Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)
- 7.8.3. Saudi Arabia
 - 7.8.3.1. Key Country Dynamics
 - 7.8.3.2. Regulatory Framework
 - 7.8.3.3. Competitive Insights
 - 7.8.3.4. Saudi Arabia Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)
- 7.8.4. UAE
 - 7.8.4.1. Key Country Dynamics
 - 7.8.4.2. Regulatory Framework
 - 7.8.4.3. Competitive Insights
 - 7.8.4.4. UAE Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)
- 7.8.5. Kuwait
 - 7.8.5.1. Key Country Dynamics
 - 7.8.5.2. Regulatory Framework
 - 7.8.5.3. Competitive Insights
 - 7.8.5.4. Kuwait Imaging Catheters Market Estimates And Forecasts, 2018 - 2030 (USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

- 8.1. Participant Overview
- 8.2. Company Market Position Analysis
- 8.3. Company Categorization
- 8.4. Strategy Mapping
- 8.5. Company Profiles/Listing
 - 8.5.1. Boston Scientific Corporation
 - 8.5.1.1. Overview
 - 8.5.1.2. Financial Performance
 - 8.5.1.3. Product Benchmarking
 - 8.5.1.4. Strategic Initiatives
 - 8.5.2. TERUMO CORPORATION
 - 8.5.2.1. Overview

- 8.5.2.2. Financial Performance
- 8.5.2.3. Product Benchmarking
- 8.5.2.4. Strategic Initiatives
- 8.5.3. Abbott
 - 8.5.3.1. Overview
 - 8.5.3.2. Financial Performance
 - 8.5.3.3. Product Benchmarking
 - 8.5.3.4. Strategic Initiatives
- 8.5.4. Gentuity, LLC.
 - 8.5.4.1. Overview
 - 8.5.4.2. Financial Performance
 - 8.5.4.3. Product Benchmarking
 - 8.5.4.4. Strategic Initiatives
- 8.5.5. Koninklijke Philips N.V.
 - 8.5.5.1. Overview
 - 8.5.5.2. Financial Performance
 - 8.5.5.3. Product Benchmarking
 - 8.5.5.4. Strategic Initiatives
- 8.5.6. Intravascular Imaging Incorporated (i3)
 - 8.5.6.1. Overview
 - 8.5.6.2. Financial Performance
 - 8.5.6.3. Product Benchmarking
 - 8.5.6.4. Strategic Initiatives
- 8.5.7. SpectraWAVE
 - 8.5.7.1. Overview
 - 8.5.7.2. Financial Performance
 - 8.5.7.3. Product Benchmarking
 - 8.5.7.4. Strategic Initiatives

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