

Endoscopy Devices - A Global Market Overview

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Report description:

Endoscopy Devices Market Trends and Outlook

Endoscopy devices minimize invasiveness when diagnosing and managing internal issues by directly visualizing organs. Typically, these devices include either a rigid or flexible tube featuring an optical lens, light source, and image sensor, which can be introduced through natural openings (such as the mouth, anus, or urethra) or minor surgical incisions. Endoscopes are equipped with advanced technologies like optics, precise mechanics, electronics, and software, which facilitate high-resolution (HD) imaging and the ability to perform biopsies. There are different types of endoscopes for specific body parts, such as cystoscopes for the bladder, nephroscopes for the kidneys, bronchoscopes for the lungs, arthroscopes for joints, colonoscopes for the colon, and laparoscopes for the abdomen and pelvis. These instruments are used for visual examinations and photography as well as for conducting biopsies and removing foreign bodies.

The global endoscopy devices market size is estimated at US\$59 billion in 2024 and projected to reach US\$89 billion by 2030, growing at a CAGR of 7.1%. Market growth is driven by aging populations, rising chronic diseases, and technological advancements such as wireless capsule endoscopes, robotic assistance, and AI integration. The shift toward minimally invasive procedures, increasing use of disposable endoscopes, and expansion of Ambulatory Surgical Centers (ASCs) are further fueling demand. Enhanced imaging, faster recovery, and government healthcare investments are making endoscopy a key tool in early diagnosis and cost-effective patient care globally.

Endoscopy Devices Regional Market Analysis

North America dominates the global endoscopy devices market, with an estimated 40.3% share in 2024, owing to advanced healthcare infrastructure, high adoption of minimally invasive procedures, robust R&D, and the presence of key players like Medtronic and Boston Scientific. The United States leads the regional market due to widespread chronic diseases, an early diagnosis focus, and favorable reimbursement policies. Conversely, Asia Pacific is the fastest-growing region, expected to register a CAGR of 8.4% from 2024 to 2030. Growth in this region is attributed to rising healthcare investments, expanding medical tourism, and increasing demand for cost-effective endoscopic solutions. Countries like China and India benefit from local manufacturing, growing disease burden, and improving healthcare infrastructure, making the region a hotspot for market

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expansion.

Endoscopy Devices Market Analysis by Product

The endoscope segment led the endoscopy devices market by product, accounting for a 37.9% share in 2024, due to rising endoscopic procedures and preference for flexible, lightweight, and disposable models that improve safety and precision. Imaging technological advancements such as HD, 3D, and Narrow Band Imaging (NBI), alongside the integration of AI and robotics, have improved diagnostic precision and broadened clinical uses. Single-use endoscopes are becoming more popular due to their benefits in infection control and cost-effectiveness. Endoscopes play a crucial role in the diagnosis and treatment of complex conditions such as cancer and gastrointestinal diseases. On the other hand, the endoscopy visualization systems segment is expected to experience rapid growth with a CAGR of 7.8% from 2024 to 2030, driven by developments in 4K resolution, high-definition imaging, and 3D visualization, all of which enhance real-time diagnostics during minimally invasive procedures. The incorporation of cloud-based systems and specialized imaging tools further facilitates market expansion, positioning visualization systems as essential for improving procedural results and quality of care.

Endoscopy Devices Market Analysis by Application

Gastrointestinal endoscopy is the largest application market for endoscopy devices, capturing a 31.4% share in 2024 and is also projected to register the fastest growth rate at a CAGR of 7.9% from 2024 to 2030. This growth is fueled by the rising global incidence of gastrointestinal diseases such as colorectal cancer, inflammatory bowel disease (IBD), and GI bleeding. Procedures such as colonoscopy, gastroscopy, and ERCP are widely performed due to their accuracy and minimally invasive nature. The segment gains from technological advancements, including high-definition imaging, AI integration, and enhanced scope flexibility, which support early diagnosis and treatment. Rising awareness of preventive care, a growing elderly population, and patient preference for outpatient procedures with quick recovery further drive demand. Additionally, improving healthcare systems and higher screening rates in emerging markets contribute to the segment's rapid expansion.

Endoscopy Devices Market Analysis by End-User

In 2024, the hospitals and clinics segment dominates the endoscopy devices market by end-user with a 51.5% share, owing to their advanced infrastructure, specialized staff, and comprehensive endoscopy suites, which capable of handling complex procedures. These facilities manage high patient volumes across both inpatient and outpatient settings, driving demand for advanced equipment like HD visualization systems and robotic endoscopy platforms. Supportive reimbursement policies, rising government healthcare investments, and the growing burden of chronic diseases further support this segment's dominance. Meanwhile, Ambulatory Surgical Centers (ASCs) are projected to witness the fastest growth, with a CAGR of 8.4% during 2024-2030, driven by the global shift toward outpatient care, increased preference for minimally invasive procedures, and the availability of compact, ASC-friendly devices such as disposable endoscopes and wireless imaging tools. ASCs offer cost-effective, efficient care with shorter recovery times, making them increasingly attractive to both patients and healthcare providers.

Endoscopy Devices Market Report Scope

This global report on Endoscopy Devices analyzes the market based on product, application, and end-user for the period 2021-2030 with projections from 2024 to 2030 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

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Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 17

Endoscopy Devices Market by Geographic Region

- North America (The United States, Canada, and Mexico)
- Europe (Germany, France, the United Kingdom, Italy, Spain, and Rest of Europe)
- Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)
- South America (Brazil, Argentina, and Rest of South America)
- Rest of World

Endoscopy Devices Market by Product

- Endoscopes
- Visualization Systems
- Visualization Components
- Other Devices (Access Devices, Energy Systems, Hand Instruments, Suction & Irrigation Systems, Snares, Wound Retractors, and others)

Endoscopy Devices Market by Application

- Gastrointestinal Endoscopy
- Laparoscopy
- Urology Endoscopy
- Arthroscopy
- ENT Endoscopy
- Gynecology Endoscopy
- Neurology Endoscopy
- Other Applications (Including Laryngoscopy, Mediastinoscopy, Otoscopy, Bronchoscopy, and Sigmoidoscopy)

Endoscopy Devices Market by End-user

- Hospitals and Clinics
- Ambulatory Surgical Centers (ASCs)
- Other End-Users (Including Diagnostic Centers and Specialty Clinics)

Table of Contents:

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

- Product Outline
- Endoscopy Devices Defined
- Endoscopy Device Products
 - o□Endoscopes
 - o□Visualization Systems
 - o□Visualization Components
 - o□Other Devices (Access Devices, Energy Systems, Hand Instruments, Suction & Irrigation Systems, Snares, Wound Retractors, and others)
- Endoscopy Device Applications

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- o□Gastrointestinal Endoscopy
- o□Laparoscopy
- o□Urology Endoscopy
- o□Arthroscopy
- o□ENT Endoscopy
- o□Gynecology Endoscopy
- o□Neurology Endoscopy
- o□Other Applications (Including Laryngoscopy, Mediastinoscopy, Otoscopy, Bronchoscopy, and Sigmoidoscopy)
- Endoscopy Device End-Users
- o□Hospitals and Clinics
- o□Ambulatory Surgical Centers (ASCs)
- o□Other End-Users (Including Diagnostic Centers and Specialty Clinics)
- 2. Key Market Trends
- 3. Key Market Players
- Advanced Endoscopy Devices
- Arthrex, Inc.
- B. Braun SE
- Boston Scientific Corporation
- CONMED Corporation
- Cook Medical LLC
- FUJIFILM Corporation
- HOYA Corporation
- Intuitive Surgical, Inc.
- Johnson & Johnson
- KARL STORZ SE & Co. KG
- Laborie Medical Technologies, Inc.
- Medtronic plc
- Olympus Corporation
- Richard Wolf GmbH
- Smith & Nephew plc
- Steris plc
- Stryker Corporation
- 4. Key Business & Product Trends
- 5. Global Market Overview
- Global Endoscopy Devices Market Overview by Product
- o□Endoscopy Devices Product Market Overview by Global Region
- Endoscopes
- Visualization Systems
- Visualization Components
- Other Devices
- Global Endoscopy Devices Market Overview by Application
- o□Endoscopy Devices Application Market Overview by Global Region
- Gastrointestinal Endoscopy
- Laparoscopy
- Urology Endoscopy
- Arthroscopy
- ENT Endoscopy

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- Gynecology Endoscopy
- Neurology Endoscopy
- Other Applications
- Global Endoscopy Devices Market Overview by End-User
- o□Endoscopy Devices End-User Market Overview by Global Region
- Hospitals and Clinics
- Ambulatory Surgical Centers (ASCs)
- Other End-Users

PART B: REGIONAL MARKET PERSPECTIVE

- Global Endoscopy Devices Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. North America

- North American Endoscopy Devices Market Overview by Geographic Region
- North American Endoscopy Devices Market Overview by Product
- North American Endoscopy Devices Market Overview by Application
- North American Endoscopy Devices Market Overview by End-User
- Country-wise Analysis of North American Endoscopy Devices Market
- o□The United States
- United States Endoscopy Devices Market Overview by Product
- United States Endoscopy Devices Market Overview by Application
- United States Endoscopy Devices Market Overview by End-User
- o□Canada
- Canadian Endoscopy Devices Market Overview by Product
- Canadian Endoscopy Devices Market Overview by Application
- Canadian Endoscopy Devices Market Overview by End-User
- o□Mexico
- Mexican Endoscopy Devices Market Overview by Product
- Mexican Endoscopy Devices Market Overview by Application
- Mexican Endoscopy Devices Market Overview by End-User

7. Europe

- European Endoscopy Devices Market Overview by Geographic Region
- European Endoscopy Devices Market Overview by Product
- European Endoscopy Devices Market Overview by Application
- European Endoscopy Devices Market Overview by End-User
- Country-wise Analysis of European Endoscopy Devices Market
- o□Germany
- German Endoscopy Devices Market Overview by Product
- German Endoscopy Devices Market Overview by Application
- German Endoscopy Devices Market Overview by End-User
- o□France
- French Endoscopy Devices Market Overview by Product
- French Endoscopy Devices Market Overview by Application
- French Endoscopy Devices Market Overview by End-User
- o□The United Kingdom
- United Kingdom Endoscopy Devices Market Overview by Product
- United Kingdom Endoscopy Devices Market Overview by Application
- United Kingdom Endoscopy Devices Market Overview by End-User

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o Italy

- Italian Endoscopy Devices Market Overview by Product
- Italian Endoscopy Devices Market Overview by Application
- Italian Endoscopy Devices Market Overview by End-User

o Spain

- Spanish Endoscopy Devices Market Overview by Product
- Spanish Endoscopy Devices Market Overview by Application
- Spanish Endoscopy Devices Market Overview by End-User

o Rest of Europe

- Rest of Europe Endoscopy Devices Market Overview by Product
- Rest of Europe Endoscopy Devices Market Overview by Application
- Rest of Europe Endoscopy Devices Market Overview by End-User

8. Asia-Pacific

- Asia-Pacific Endoscopy Devices Market Overview by Geographic Region
- Asia-Pacific Endoscopy Devices Market Overview by Product
- Asia-Pacific Endoscopy Devices Market Overview by Application
- Asia-Pacific Endoscopy Devices Market Overview by End-User
- Country-wise Analysis of Asia-Pacific Endoscopy Devices Market

o Japan

- Japanese Endoscopy Devices Market Overview by Product
- Japanese Endoscopy Devices Market Overview by Application
- Japanese Endoscopy Devices Market Overview by End-User

o China

- Chinese Endoscopy Devices Market Overview by Product
- Chinese Endoscopy Devices Market Overview by Application
- Chinese Endoscopy Devices Market Overview by End-User

o India

- Indian Endoscopy Devices Market Overview by Product
- Indian Endoscopy Devices Market Overview by Application
- Indian Endoscopy Devices Market Overview by End-User

o South Korea

- South Korean Endoscopy Devices Market Overview by Product
- South Korean Endoscopy Devices Market Overview by Application
- South Korean Endoscopy Devices Market Overview by End-User

o Rest of Asia-Pacific

- Rest of Asia-Pacific Endoscopy Devices Market Overview by Product
- Rest of Asia-Pacific Endoscopy Devices Market Overview by Application
- Rest of Asia-Pacific Endoscopy Devices Market Overview by End-User

9. South America

- South American Endoscopy Devices Market Overview by Geographic Region
- South American Endoscopy Devices Market Overview by Product
- South American Endoscopy Devices Market Overview by Application
- South American Endoscopy Devices Market Overview by End-User
- Country-wise Analysis of South American Endoscopy Devices Market

o Brazil

- Brazilian Endoscopy Devices Market Overview by Product
- Brazilian Endoscopy Devices Market Overview by Application

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- Brazilian Endoscopy Devices Market Overview by End-User
- o□Argentina
- Argentine Endoscopy Devices Market Overview by Product
- Argentine Endoscopy Devices Market Overview by Application
- Argentine Endoscopy Devices Market Overview by End-User
- o□Rest of South America
- Rest of South American Endoscopy Devices Market Overview by Product
- Rest of South American Endoscopy Devices Market Overview by Application
- Rest of South American Endoscopy Devices Market Overview by End-User
- 10. Rest of World
- Rest of World Endoscopy Devices Market Overview by Product
- Rest of World Endoscopy Devices Market Overview by Application
- Rest of World Endoscopy Devices Market Overview by End-User

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY
2. FEEDBACK

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