

# Endoscopy Devices Market to Exceed USD 50.4 Bn by 2035, Growing at a CAGR of 3.4% | Transparency Market Research

*Rising demand for minimally invasive procedures, advanced endoscopic technologies, and growing chronic disease cases are fueling market growth.*

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-- The [endoscopy devices market](#) is witnessing consistent growth as global healthcare systems increasingly shift toward minimally invasive diagnostic and therapeutic procedures. These devices are now indispensable tools across medical specialties, providing accurate visualization and treatment of

gastrointestinal, respiratory, urological, gynecological, and musculoskeletal disorders. Rising global awareness about preventive healthcare, an expanding geriatric population, and the prevalence of chronic conditions are collectively strengthening demand.

Technological advancements, such as capsule endoscopy, robotic-assisted systems, and AI-based diagnostic support, are further transforming clinical workflows, making procedures faster, safer, and more precise. In parallel, growing investments in outpatient care and ambulatory centers are reshaping patient pathways, boosting the adoption of portable and cost-efficient endoscopic solutions worldwide.

## Market Overview

The global endoscopy devices market was valued at US\$ 35.0 billion in 2024 and is projected to surpass US\$ 50.4 billion by 2035, reflecting a CAGR of 3.4% from 2025 to 2035. This steady growth is attributed to the increasing acceptance of minimally invasive surgery (MIS) and the continual introduction of advanced imaging technologies.

Key developments such as high-definition (HD) and 4K visualization systems, capsule-based

### ENDOSCOPY DEVICES MARKET OUTLOOK 2035

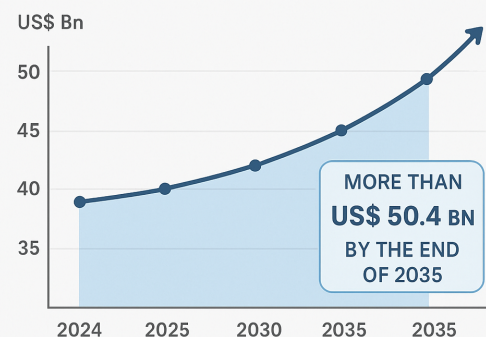
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FROM 2025 TO 2035



Endoscopy Devices

endoscopy, and AI-assisted detection algorithms have improved both patient comfort and diagnostic accuracy. Endoscopy has gradually replaced many invasive surgical approaches, reducing patient recovery times, hospital stays, and overall healthcare costs.

Additionally, the expansion of ambulatory surgical centers (ASCs) worldwide is a major driver. These facilities emphasize efficiency and lower treatment costs, thereby accelerating demand for compact, user-friendly endoscopic platforms.

### Analyst Viewpoint

Analysts at Transparency Market Research highlight that the endoscopy devices market is entering a new era of innovation and accessibility. While gastrointestinal (GI) endoscopy continues to dominate due to the global rise in colorectal cancer and GI-related disorders, emerging technologies such as robotic systems and AI-driven software are redefining the landscape in developed economies.

Despite promising growth, challenges remain. The high cost of technologically advanced systems limits adoption in lower-income regions. However, governments and healthcare providers are increasingly recognizing the long-term cost benefits of MIS, driving greater investments in infrastructure. Manufacturers that prioritize affordability, scalability, and patient-centric solutions will be best positioned to capture untapped opportunities in emerging markets.

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### Key Drivers of Market Growth

#### Increasing Adoption of Minimally Invasive Procedures

The global healthcare industry is increasingly prioritizing minimally invasive procedures that reduce patient trauma while ensuring high clinical outcomes. Endoscopic devices enable surgeons to perform diagnostics and treatments with smaller incisions, minimizing complications and accelerating recovery. Growing patient awareness and preference for MIS, coupled with hospital and ASC investments in robotic systems and flexible endoscopes, continue to propel demand.

#### Technological Advancements in Endoscopic Devices

Endoscopy technologies have evolved rapidly in the last decade. Advanced imaging modalities such as HD, 4K, and 3D visualization, along with narrow-band imaging (NBI) and fluorescence techniques, have dramatically improved the ability to detect early-stage abnormalities. AI integration now provides real-time lesion detection, supporting clinicians with automated diagnostic insights. Innovations like capsule endoscopy and robotic platforms are expanding applications, improving accessibility, and enhancing precision in complex procedures.

## Rising Geriatric Population and Chronic Diseases

The global demographic shift toward an aging population is a critical growth factor. Elderly patients are at higher risk of colorectal cancer, gastrointestinal bleeding, respiratory conditions, and urological diseases—all requiring endoscopic evaluation and treatment. Early detection and regular monitoring using endoscopy are improving patient outcomes, leading to increasing volumes of procedures across hospitals and specialty clinics.

### Segment Analysis

#### By Device Type

Endoscopes (Rigid, Flexible, Capsule, Robot-assisted)

Visualization Systems & Components (Monitors, Cameras, Light Sources, Video Processors)

Electronic Endoscopy Equipment (Insufflators, Fluid Management Systems)

Mechanical Endoscopy Equipment (Biopsy Forceps, Graspers, Trocars, Others)

Others (Surgical Dissectors, Needle Holders)

#### By Application

Gastrointestinal Endoscopy (dominant segment)

Laparoscopy

Arthroscopy

Obstetrics Endoscopy

Urology Endoscopy

Bronchoscopy

Others (ENT Endoscopy, etc.)

#### By End-User

Hospitals

Diagnostic & Ambulatory Centers

Others (Research Institutes, Specialty Clinics)

## Regional Insights

North America continues to dominate the global market due to advanced healthcare infrastructure, high procedural volumes, and favorable reimbursement systems. Robust screening protocols for colorectal cancer and rapid adoption of robotic and AI-assisted systems further cement its leadership position.

Europe shows strong adoption of high-end imaging systems, with Germany, the U.K., France, and Italy leading the way. Government healthcare funding and early uptake of AI-driven platforms are key drivers.

Asia Pacific is emerging as a high-growth market. Rising healthcare investments, expanding medical tourism, and an aging population in China, India, and Japan are fueling rapid adoption.

Latin America and Middle East & Africa represent developing markets where awareness of minimally invasive procedures is increasing. However, adoption remains constrained by affordability issues and limited infrastructure.

## Key Players and Industry Leaders

The market is highly competitive, with leading companies focusing on innovation, partnerships, and regional expansion. Prominent players include:

Olympus Corporation

Ethicon Endo-Surgery

Covidien plc (Medtronic)

Boston Scientific Corporation

Intuitive Surgical, Inc.

Stryker Corporation

Richard Wolf GmbH

FUJIFILM Holdings Corporation

KARL STORZ GmbH & Co. KG

HOYA Corporation (Pentax Medical)

B. Braun Melsungen AG

Arthrex, Inc.

Cook Medical, Inc.

These companies are investing in AI integration, robotic solutions, and miniaturized devices to expand portfolios and improve accessibility across diverse healthcare settings.

### Recent Developments

Olympus Europa (Oct 2024): Odin Vision received CE approval for its AI-powered endoscopy medical devices—CADDIE, CADU, and SMARTIBD—strengthening Olympus' position in digital diagnostics.

Stryker (Sept 2024): Announced the launch of the 1788 Advanced Imaging Platform in India, delivering state-of-the-art surgical visualization capabilities across multiple specialties.

### Market Trends

AI-assisted lesion detection improving real-time diagnostic accuracy.

Robotic endoscopy systems enhancing precision in complex procedures.

Capsule endoscopy emerging as a non-invasive diagnostic modality.

Expansion of ambulatory surgical centers and outpatient care.

Rising demand for compact, cost-efficient, and portable endoscopy systems.

### Future Outlook

The global endoscopy devices market is set for sustained growth through 2035, underpinned by advances in AI, robotics, and imaging technologies. As minimally invasive procedures become the global standard, demand will surge across hospitals, ASCs, and specialty clinics. Expanding healthcare infrastructure in emerging markets will unlock new growth avenues, making affordability and accessibility central to future strategies.

### Why Buy This Report?

Market size forecasts and CAGR projections through 2035

Comprehensive segmentation by device type, application, end-user, and region

Company profiles with strategies, portfolios, and recent developments

Insights into technological innovations and emerging global trends

Regional analysis of drivers, restraints, and opportunities

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