

Global Endoscopy Device Market to Double by 2034 Driven by Technological Innovations

Global endoscopy device market driven by minimally invasive techniques, chronic disease prevalence, and technological advancements

VANCOUVER, BC, CANADA, September 10, 2025 /EINPresswire.com/ -- The global [endoscopy device market](#) is set for strong growth, projected to reach USD 56.5 billion in 2024 and nearly

USD 111.4 billion by 2034, expanding at a healthy 7.10% CAGR. This growth is fueled by the rising need for minimally invasive surgeries, the increasing prevalence of chronic diseases, and the growing focus on early diagnosis and preventive healthcare.



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Key Market Highlights

Flexible endoscopes remain the largest product segment due to their wide use in gastrointestinal and respiratory procedures.

Capsule endoscopy is the fastest-growing product, valued for its patient comfort and non-invasive nature.

Gastrointestinal procedures drive the highest demand, while respiratory endoscopy is expanding quickly with the rise in lung-related diseases.

Hospitals continue to be the largest end users, while ambulatory surgical centers are gaining ground as cost-effective outpatient facilities.

AI-assisted endoscopy dominates the technology landscape, while 3D imaging endoscopy is the fastest-growing innovation.

Direct sales remain the largest distribution channel, while online sales are expanding rapidly with digital adoption.

Market Drivers

The biggest growth driver is technological advancement. The integration of artificial intelligence (AI), 3D imaging, and robotic-assisted systems is transforming how endoscopic procedures are performed. Studies show AI-assisted endoscopy improves detection rates of abnormalities by up to 20%, making procedures more accurate and efficient.

Public funding and government initiatives are also accelerating adoption. In the U.S., increased investments in digital healthcare and faster device approvals are boosting innovation. Leading manufacturers such as Olympus Corporation, Boston Scientific, and Karl Storz are launching advanced AI-powered systems, strengthening their market presence.

Additionally, the aging global population and the rising cases of gastrointestinal and respiratory disorders are pushing demand for endoscopic solutions. Colorectal cancer, for example, is now the third most common cancer worldwide, highlighting the urgent need for effective diagnostic tools.

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Market Restraints

Despite strong momentum, challenges remain. Strict regulatory requirements, such as the European Union's new Medical Device Regulation (MDR), have increased approval times and compliance costs for manufacturers. Smaller healthcare facilities, especially in emerging markets, also face difficulties adopting high-cost endoscopy systems.

Another barrier is the shortage of trained professionals who can operate advanced devices. Limited availability of skilled staff and logistical challenges in underserved areas restrict wider adoption of endoscopic technologies.

Segmentation Insights

By Product Type

Flexible endoscopes are projected to reach USD 52 billion by 2034, growing steadily at 6.5% CAGR.

Capsule endoscopes will grow the fastest at 9.2% CAGR, supported by wireless technology and patient-friendly features.

By Application

Gastrointestinal endoscopy dominates, reaching USD 44 billion by 2034, driven by rising colorectal cancer cases.

Respiratory endoscopy will see the fastest growth at 8.5% CAGR, fueled by increasing cases of COPD and lung cancer.

By End User

Hospitals lead with USD 30 billion in 2024, growing to USD 58 billion by 2034, supported by advanced infrastructure and high patient volumes.

Ambulatory surgical centers are expanding at 8.1% CAGR as outpatient care becomes more common and cost-effective.

By Technology

AI-assisted endoscopy is the largest technology segment, expected to hit USD 37 billion by 2034.

3D imaging endoscopy will grow the fastest at 10.2% CAGR, improving visualization and diagnostic accuracy.

By Distribution Channel

Direct sales dominate, reaching USD 66 billion by 2034, thanks to strong manufacturer-provider relationships.

Online sales are growing at 9% CAGR as healthcare providers embrace e-commerce platforms.

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Regional Outlook

North America remains the largest market, driven by high healthcare spending, advanced infrastructure, and rapid adoption of innovative devices.

Asia Pacific is the fastest-growing region, fueled by rising healthcare investments, growing populations, and expanding hospital networks.

Future Trends

Robotic-assisted endoscopy is expected to grow 15% annually, reflecting broader adoption of robotic surgery technologies.

Disposable endoscopes are gaining popularity due to concerns about cross-contamination and patient safety.

With AI-powered devices receiving regulatory approval, diagnostic accuracy and procedure efficiency are expected to improve significantly in the coming decade.

Part 1: Top 10 Companies

Olympus Corporation

Boston Scientific Corporation

Karl Storz GmbH & Co. KG

Fujifilm Holdings Corporation

Stryker Corporation

Hoya Corporation

Richard Wolf GmbH

Pentax Medical

Medtronic PLC

Smith & Nephew PLC

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Endoscopy Device Market Segmentation

By Product Type

Flexible Endoscopes

Rigid Endoscopes

Capsule Endoscopes

Robot-Assisted Endoscopes

Disposable Endoscopes

By Application

Gastrointestinal Endoscopy

Urological Endoscopy

Respiratory Endoscopy

Orthopedic Endoscopy

Cardiovascular Endoscopy

By End User

Hospitals

Ambulatory Surgical Centers

Specialty Clinics

Diagnostic Centers

By Technology

AI-Assisted Endoscopy

3D Imaging Endoscopy

Fiber Optic Endoscopy

HD Visualization Endoscopy

By Distribution Channel

Direct Sales

Distributors

Online Sales

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