

## **Global Inspection Camera System Market Forecast 2024-2032**

Market Report | 2024-08-02 | 290 pages | Inkwood Research

### **AVAILABLE LICENSES:**

- Single User Price \$2900.00
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### **Report description:**

#### **KEY FINDINGS**

The global inspection camera system market is expected to reach \$930.83 million by 2032, growing at a CAGR of 11.84% during the forecast period, 2024-2032. The base year considered for the study is 2023, and the estimated period is between 2024 and 2032. The market study has also analyzed the impact of COVID-19 on the inspection camera system market qualitatively as well as quantitatively.

An inspection camera system is a specialized device used for visually inspecting hard-to-reach or inaccessible areas. It consists of a high-resolution camera mounted on a flexible or rigid probe, equipped with an integrated light source to illuminate dark spaces. The system transmits real-time images to a display monitor, allowing for detailed examination and recording of conditions within machinery, pipelines, or structures.

Commonly used in industries such as industrial maintenance, construction, automotive, medical, and security, these systems enable non-invasive inspections, improving diagnostic accuracy and operational efficiency while reducing downtime and maintenance costs.

#### **MARKET INSIGHTS**

Key enablers of the global inspection camera system market growth:

- Increasing need to assess and maintain aging infrastructure

- o Aging infrastructure refers to assets nearing the end of their service life or deteriorating prematurely, leading to reduced service levels. Factors such as climate change, prolonged use, and human interference contribute to the accelerated aging of infrastructure globally.

- o Consequently, significant investment is needed to enhance the resilience of utilities and preserve essential services like water, energy, and transportation for future generations. To achieve this, integrating data analytics and energy management in utility operations is crucial for informed decision-making in construction and maintenance.

- o According to a report by the Economist Intelligence Unit (EIU) sponsored by Oracle, industries such as oil and gas, utilities, and chemicals are facing an infrastructure crisis. These sectors rely on decades-old proprietary structures, including refineries, plants, oil rigs, and mines, as well as power, water, and gas networks, which are beginning to break down.

- o This crisis is further compounded by a significant underinvestment in global infrastructure, as highlighted by the World Economic Forum. While worldwide infrastructure investment is expected to reach \$79 trillion by 2040, the actual need is closer to \$97 trillion. To close this \$18 trillion gap, global infrastructure investment must increase by approximately 23% annually.

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o In light of these challenges, the need to assess and maintain aging infrastructure is driving the demand for advanced inspection camera systems. These systems provide non-invasive, accurate inspections of hard-to-reach areas, identifying and addressing issues before they escalate. Thus, ensuring the longevity and reliability of critical infrastructure depends on the widespread use of inspection camera systems.

- Increasing adherence to safety and quality standards
- Technological advancements driving innovation in inspection camera systems

Key growth restraining factors of the global inspection camera system market:

- High initial and maintenance costs of advanced systems
- Technical complexity and need for continuous training

o The technical complexity of advanced inspection camera systems presents a significant challenge in the global market. These systems incorporate sophisticated technologies such as high-resolution imaging, artificial intelligence (AI), and IoT connectivity, which require specialized knowledge to operate effectively.

o Consequently, there is a continuous need for training to ensure that operators and technicians can fully utilize these systems and keep up with technological advancements. Regular training programs are essential to help users understand the intricacies of the equipment, interpret data accurately, and maintain the systems properly.

o Additionally, as inspection technologies evolve, ongoing education is necessary to maintain operational efficiency and effectiveness. This challenge highlights the importance of investing in comprehensive training and skill development initiatives to support the effective deployment and utilization of complex inspection camera systems worldwide.

Global Inspection Camera System Market | Top Trends

o Evolving business models, including rental services, are making advanced inspection camera systems more accessible to a broader range of users. This trend reduces the upfront costs for businesses, allowing them to adopt high-tech inspection solutions without significant capital investment.

o The integration of AI and IoT in inspection systems enhances their functionality by enabling real-time data analysis, predictive maintenance, and remote monitoring. This leads to more efficient and accurate inspections, reducing downtime and improving operational efficiency.

o Inspection camera systems are increasingly integrated with smart manufacturing, leveraging automation and data analytics to improve quality control, optimize workflows, and reduce human error.

## SEGMENTATION ANALYSIS

Market Segmentation - Offering, Resolution Quality, Application, and End-User -

Market by Offering:

- Hardware
  - o Endoscopes
  - o Borescopes
  - o Thermal Imaging Cameras
  - o Other Hardware
- Services

Market by Resolution Quality:

- SD & HD
- Full HD & 4K

o Full HD & 4K is anticipated to be the fastest-growing resolution quality in the global inspection camera system market. These high-resolution cameras offer significantly enhanced image clarity and detail, which is crucial for precise and detailed inspections.

o The increasing demand for high-quality imaging drives the rapid adoption of full HD and 4K cameras. These advanced systems enable more accurate defect detection and better diagnostic capabilities, making them essential for tasks that require high-resolution visualization.

Market by Application:

- Pipeline Inspection

o In 2023, the majority of the market share was captured by the pipeline inspection segment under the application category.

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Inspection camera systems are vital for pipeline inspection, allowing for thorough, non-invasive examinations of pipelines used in water, oil, and gas distribution.

o These cameras can detect leaks, corrosion, blockages, and structural damages, ensuring the integrity and safety of the pipelines. By providing detailed visual data, they help in the early detection of issues, preventing costly repairs and environmental hazards. This application is crucial for maintaining efficient pipeline operations and adhering to regulatory standards.

- Drain Inspection
- Safety & Surveillance
- Medical Inspection
- Other Applications

Market by End-User:

- Industrial
- Commercial
- Municipal
- Other End-Users

## REGIONAL ANALYSIS

Geographical Study based on Four Major Regions:

- North America: The United States and Canada
- Europe: The United Kingdom, Germany, France, Italy, Spain, Belgium, Poland and Rest of Europe
- Asia-Pacific: China, Japan, India, South Korea, Indonesia, Thailand, Australia & New Zealand, and Rest of Asia-Pacific
  - o Asia-Pacific is anticipated to be the largest regional market in 2023. Countries in the region, such as China, India, and Southeast Asian nations, are undergoing rapid industrialization and urbanization. This has led to increased construction activities, infrastructure development, and manufacturing processes, all of which require advanced inspection technologies to ensure safety, quality, and compliance.
  - o Moreover, the Asia-Pacific region is a hub for manufacturing, particularly in electronics, automotive, and heavy industries. Inspection camera systems, in this regard, are essential for quality control and maintenance, thereby driving demand for advanced inspection solutions.
  - o Governments in the Asia-Pacific are supportive of the wood-based panel industry, providing subsidies and tax breaks to encourage investment and growth. Strong economic growth in various APAC nations is leading to increased investments across sectors, further driving the demand for inspection technologies.
- Rest of World: Latin America, the Middle East & Africa

## COMPETITIVE INSIGHTS

Major players in the global inspection camera system market:

- Basler AG
- CUES Inc
- iPEK International GmbH
- Eddyfi
- Omron Corp

Key strategies adopted by some of these companies:

- In October 2023, Eddyfi Technologies introduced the VersaTrax? series, a new line of robotic inspection crawlers. These state-of-the-art robots aim to enhance industrial inspections by offering superior precision, adaptability, and safety, particularly in challenging environments.
- In October 2023, Omron debuted the SWIR Camera Series, designed to improve precision inspection throughout the manufacturing process with Short Wave Infrared technology.

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Frequently Asked Questions (FAQs):

- What is the value of the global inspection camera system market?
- A: As of 2023, the global inspection camera system market size was valued at \$320.43 million.

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- What purpose do inspection cameras serve in sewer systems?

A: Inspection cameras are used in sewer systems to navigate through pipelines and identify blockages, cracks, and other structural issues. These cameras help in conducting thorough inspections without the need for extensive excavation, thereby saving time and reducing costs.

- What is the difference between an inspection camera and a scope?

A: An inspection camera is a versatile device used for various inspection tasks, while a scope (often a borescope or endoscope) is a specific type of inspection camera designed for narrow, confined spaces, such as inside engines or pipes.

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