

Inspection Camera System Market Size, Share & Trends Analysis Report By Component (Hardware, Services), By Video Quality (SD & HD, Full HD & 4K), By Application, By Distribution Channel, By End-use, By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/I23222F3DE6DEN.html>

Date: October 2024

Pages: 160

Price: US\$ 4,950.00 (Single User License)

ID: I23222F3DE6DEN

Abstracts

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Inspection Camera System Market Growth & Trends

The global inspection camera system market size is expected to reach USD 729.0 million by 2030, registering a CAGR of 11.2% from 2025 to 2030, according to a new study by Grand View Research Inc. The ability of these cameras to articulate in the industrial application helps provide a better view of the machine's inner workings; also, the usage of the inspection camera for visual inspection is one factor that propels the market growth. Providing proper maintenance of the sewer systems in commercial, residential, institutional, and public locations for the disposal of safe water and preventing the stagnation of contaminated water is also favoring the market's growth.

Manufacturers have numerous growth opportunities as they adopt innovations, modify the systems, and provide technological improvement along with investments in the research and development of inspection camera systems. For instance, ISRA VISION introduced a new camera-based inline inspection system equipped with updated features and advanced software tools. A few inspection camera systems are battery operated; the manufacturers are inspecting technology that makes their lithium-ion batteries reliable, long-lasting, and with lesser potential errors and defects. Pharmaceutical industries and semiconductor industries' requirements for inspection cameras are increasing.

Pharmaceutical industries require miniature microscopes used for endoscopes, etc., as the requirement for 1.6mm lumens visual inspection in endoscopes and medical instruments. Pharmaceutical industries and drug manufacturers are investing heavily in R&D activities to produce new vaccines and drugs; also, the government is implying regulations against the quality and supply of the drugs. North America dominated the global industry in 2021 and is likely to continue the trend during the forecast period. Rapid industrialization and municipal expansion, along with the need for video inspection, are fueling the demand for inspection camera systems.

Governments also prohibit personnel from entering the sewer pipeline systems for surveying and maintenance. The Asia Pacific region is estimated to register the fastest growth rate during the forecast period on account of the rapid industrialization and commercialization, which increase the usage of inspection camera systems. The government of India announced that over 560,000 kilometers of optical fiber cable have been laid around the country under the BharatNet Project. Inspection and maintenance of this vast cable network are conducted with the help of an inspection camera system owing to the presence of silica in the wire.

Inspection Camera System Market Report Highlights

The pipeline inspection segment accounted for the largest revenue share in 2024 and will remain dominant throughout the forecast period

As per the video quality, the SD & HD segment will lead the industry over the forecast years

The hardware component segment accounted for the largest share of the global industry in 2024 due to the invention, improvement, and technological development of the inspection camera systems

Europe is expected to record a considerable growth rate from 2025 to 2030 owing to the requirement of vast natural gas pipeline projects that run between multiple European countries

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Market Definitions
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 Gvr's Internal Database
 - 1.3.3 Secondary Sources & Third Party Perspective
 - 1.3.4 Primary Research
- 1.4 Information Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation and Data Visualization
- 1.6 Data Validation and Publishing

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Outlook
- 2.2 Segmental Outlook

CHAPTER 3 INDUSTRY OUTLOOK

- 3.1 Market Size and Growth Prospects
- 3.2 Industry Value Chain Analysis
- 3.3 Market Dynamics
 - 3.3.1 Market Driver Analysis
 - 3.3.2 Market Restraint/Challenges Analysis
- 3.4 Porter's Five Forces Analysis
- 3.5 PESTLE Analysis

CHAPTER 4 APPLICATION ESTIMATES AND TREND ANALYSIS

- 4.1 Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (USD Million)
- 4.2 Application Movement Analysis & Market Share, 2024 & 2030
- 4.3 Pipeline Inspection
 - 4.3.1 Pipeline Inspection Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)
- 4.4 Drain Inspection

4.4.1 Drain Inspection Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

4.5 Tank

4.5.1 Tank Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

4.6 Medical Inspection

4.6.1 Medical Inspection Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

4.7 Other

4.7.1 Other Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

CHAPTER 5 VIDEO QUALITY ESTIMATES AND TREND ANALYSIS

5.1 Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (USD Million)

5.2 Video Quality Movement Analysis & Market Share, 2024 & 2030

5.3 Standard Definition & High Definition (SD & HD)

5.3.1 SD & HD Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

5.4 Full Hd & 4k

5.4.1 Full Hd & 4k Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

CHAPTER 6 COMPONENT ESTIMATES AND TREND ANALYSIS

6.1 Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (USD Million)

6.2 Component Movement Analysis & Market Share, 2024 & 2030

6.3 Hardware

6.3.1 Hardware Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

6.4 Services

6.4.1 Service Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

CHAPTER 7 END USE ESTIMATES AND TREND ANALYSIS

7.1 Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (USD Million)

7.2 End Use Movement Analysis & Market Share, 2024 & 2030

7.3 Industrial

7.3.1 Industrial Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

7.4 Commercial

7.4.1 Commercial Market Size Estimates And Forecasts, 2018 - 2030 (USD Million)

7.5 Municipal

7.5.1 Municipal Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

7.6 Others

7.6.1 Other Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

CHAPTER 8 DISTRIBUTION CHANNEL ESTIMATES AND TREND ANALYSIS

8.1 Market Size Estimates & Forecasts and Trend Analysis, 2018 - 2030 (USD Million)

8.2 Distribution Channel Movement Analysis & Market Share, 2024 & 2030

8.3 Online

8.3.1 Online Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

8.4 In-Store

8.4.1 In-Store Market Size Estimates And Forecasts, 2018 - 2030 (USD Million, Thousand Units)

CHAPTER 9 REGIONAL ESTIMATES & TREND ANALYSIS

9.1 Inspection Camera System Market by Region, 2024 & 2030

9.2 Regional Movement Analysis & Market Share, 2024 & 2030

9.3 North America

9.3.1 North America Inspection Camera System Market, By Application, 2018 - 2030 (USD Million)

9.3.2 North America Inspection Camera System Market, By Video Quality, 2018 - 2030 (USD Million)

9.3.3 North America Inspection Camera System Market, By Component, 2018 - 2030 (USD Million)

9.3.4 North America Inspection Camera System Market, By End Use, 2018 - 2030 (USD Million)

9.3.5 North America Inspection Camera System Market, By Distribution Channel, 2018 - 2030 (USD Million)

9.3.6 U.S.

9.3.6.1 U.S. inspection camera system market, by application, 2018 - 2030 (USD

Million)

9.3.6.2 U.S. inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.3.6.3 U.S. inspection camera system market, by component, 2018 - 2030 (USD Million)

9.3.6.4 U.S. inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.3.6.5 U.S. inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.3.7 Canada

9.3.7.1 Canada inspection camera system market, by application, 2018 - 2030 (USD Million)

9.3.7.2 Canada inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.3.7.3 Canada inspection camera system market, by component, 2018 - 2030 (USD Million)

9.3.7.4 Canada inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.3.7.5 Canada inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.3.8 Mexico

9.3.8.1 Mexico inspection camera system market, by application, 2018 - 2030 (USD Million)

9.3.8.2 Mexico inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.3.8.3 Mexico inspection camera system market, by component, 2018 - 2030 (USD Million)

9.3.8.4 Mexico inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.3.8.5 Mexico inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4 Europe

9.4.1 Europe inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.2 Europe inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.4.3 Europe inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.4 Europe inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.5 Europe inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4.6 Germany

9.4.6.1 Germany inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.6.2 Germany inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.4.6.3 Germany inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.6.4 Germany inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.6.5 Germany inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4.7 U.K.

9.4.7.1 U.K. inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.7.2 U.K. inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.4.7.3 U.K. inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.7.4 U.K. inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.7.5 U.K. inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4.8 France

9.4.8.1 France inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.8.2 France inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.4.8.3 France inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.8.4 France inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.8.5 France inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4.9 Spain

9.4.9.1 Spain inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.9.2 Spain inspection camera system market, by video quality, 2018 - 2030 (USD Million)

Million)

9.4.9.3 Spain inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.9.4 Spain inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.9.5 Spain inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.4.10 Italy

9.4.10.1 Italy inspection camera system market, by application, 2018 - 2030 (USD Million)

9.4.10.2 Italy inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.4.10.3 Italy inspection camera system market, by component, 2018 - 2030 (USD Million)

9.4.10.4 Italy inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.4.10.5 Italy inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.5 Asia Pacific

9.5.1 APAC inspection camera system market, by application, 2018 - 2030 (USD Million)

9.5.2 APAC inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.5.3 APAC inspection camera system market, by component, 2018 - 2030 (USD Million)

9.5.4 APAC inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.5.5 APAC inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.5.6 China

9.5.6.1 China inspection camera system market, by application, 2018 - 2030 (USD Million)

9.5.6.2 China inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.5.6.3 China inspection camera system market, by component, 2018 - 2030 (USD Million)

9.5.6.4 China inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.5.6.5 China inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.5.7 India

9.5.7.1 India inspection camera system market, by application, 2018 - 2030 (USD Million)

9.5.7.2 India inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.5.7.3 India inspection camera system market, by component, 2018 - 2030 (USD Million)

9.5.7.4 India inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.5.7.5 India inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.5.8 Japan

9.5.8.1 Japan inspection camera system market, by application, 2018 - 2030 (USD Million)

9.5.8.2 Japan inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.5.8.3 Japan inspection camera system market, by component, 2018 - 2030 (USD Million)

9.5.8.4 Japan inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.5.8.5 Japan inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.5.9 South Korea

9.5.9.1 South Korea inspection camera system market, by application, 2018 - 2030 (USD Million)

9.5.9.2 South Korea inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.5.9.3 South Korea inspection camera system market, by component, 2018 - 2030 (USD Million)

9.5.9.4 South Korea inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.5.9.5 South Korea inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.6 Latin America

9.6.1 Latin America inspection camera system market, by application, 2018 - 2030 (USD Million)

9.6.2 Latin America inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.6.3 Latin America inspection camera system market, by component, 2018 - 2030

(USD Million)

9.6.4 Latin America inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.6.5 Latin America inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.6.6 Brazil

9.6.6.1 Brazil inspection camera system market, by application, 2018 - 2030 (USD Million)

9.6.6.2 Brazil inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.6.6.3 Brazil inspection camera system market, by component, 2018 - 2030 (USD Million)

9.6.6.4 Brazil inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.6.6.5 Brazil inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.7 Middle East & Africa (MEA)

9.7.1 MEA inspection camera system market, by application, 2018 - 2030 (USD Million)

9.7.2 MEA inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.7.3 MEA inspection camera system market, by component, 2018 - 2030 (USD Million)

9.7.4 MEA inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.7.5 MEA inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.7.6 UAE

9.7.6.1 UAE inspection camera system market, by application, 2018 - 2030 (USD Million)

9.7.6.2 UAE inspection camera system market, by video quality, 2018 - 2030 (USD Million)

9.7.6.3 UAE inspection camera system market, by component, 2018 - 2030 (USD Million)

9.7.6.4 UAE inspection camera system market, by end use, 2018 - 2030 (USD Million)

9.7.6.5 UAE inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.7.7 Saudi Arabia

9.7.7.1 Saudi Arabia inspection camera system market, by application, 2018 - 2030

(USD Million)

9.7.7.2 Saudi Arabia inspection camera system market, by video quality, 2018 - 2030

(USD Million)

9.7.7.3 Saudi Arabia inspection camera system market, by component, 2018 - 2030

(USD Million)

9.7.7.4 Saudi Arabia inspection camera system market, by end use, 2018 - 2030

(USD Million)

9.7.7.5 Saudi Arabia inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

9.7.8 South Africa

9.7.8.1 South Africa inspection camera system market, by application, 2018 - 2030

(USD Million)

9.7.8.2 South Africa inspection camera system market, by video quality, 2018 - 2030

(USD Million)

9.7.8.3 South Africa inspection camera system market, by component, 2018 - 2030

(USD Million)

9.7.8.4 South Africa inspection camera system market, by end use, 2018 - 2030

(USD Million)

9.7.8.5 South Africa inspection camera system market, by distribution channel, 2018 - 2030 (USD Million)

CHAPTER 10 COMPETITIVE LANDSCAPE,

10.1 Basler AG

10.1.1 Company Overview

10.1.2 Financial Performance

10.1.3 Product Benchmarking

10.1.4 Recent Developements

10.2 Leica Microsystems (Danaher Corporation)

10.2.1 Company Overview

10.2.2 Financial Performance

10.2.3 Product Benchmarking

10.2.4 Recent Developements

10.3 Clarus Medical LLC

10.3.1 Company Overview

10.3.2 Product Benchmarking

10.4 Eddyfi Technologies

10.4.1 Company Overview

10.4.2 Product Benchmarking

- 10.4.3 Recent Developments
- 10.5 Minicam Group (Halma plc)
 - 10.5.1 Company Overview
 - 10.5.2 Financial Performance
 - 10.5.3 Product Benchmarking
- 10.6 iPEK International GmbH (IDEX Corporation)
 - 10.6.1 Company Overview
 - 10.6.2 Product Benchmarking
- 10.7 NDT Technologies (P) Limited
 - 10.7.1 Company Overview
 - 10.7.2 Product Benchmarking
- 10.8 CUES Inc.
 - 10.8.1 Company Overview
 - 10.8.2 Product Benchmarking
 - 10.8.3 Recent Developments
- 10.9 OMNIVISION
 - 10.9.1 Company Overview
 - 10.9.2 Product Benchmarking
 - 10.9.3 Recent Developments
- 10.10 I.C.LERCHER-Solutions GmbH
 - 10.10.1 Company Overview
 - 10.10.2 Product Benchmarking
 - 10.10.3 Recent Developments

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