

# Global Artificial Intelligence AI Visual Inspection System Market Set For 25.3% Growth, Reaching \$74.60 Billion By 2029

*The Business Research Company's Global Artificial Intelligence AI Visual Inspection System Market Set For 25.3% Growth, Reaching \$74.60 Billion By 2029*

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The Business Research Company  
Artificial Intelligence (AI) Visual Inspection System  
Global Market Report 2025 - Market Size, Trends, And  
Global Forecast 2025-2034

What Are The Projections For The Size And Growth Of The AI Visual Inspection System Market?

The [artificial intelligence AI visual inspection system market size](#) has grown exponentially in recent years. It will grow from \$24.11 billion in 2024 to \$30.23 billion in 2025 at a compound annual growth rate CAGR of 25.4%. The growth in the historic period can be attributed to the rise in demand for automation in manufacturing, the rise of Industry 4.0 technologies, improved image processing capabilities, the rise in the need for higher precision and defect detection in production, the rise in cost reductions in hardware components, and the growth in the adoption of AI across various industries for quality control and predictive maintenance.

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It will grow to \$74.60 billion in 2029 at a compound annual growth rate (CAGR) of 25.3%.”

*The Business Research Company*

The AI visual inspection system market size is expected to see exponential growth in the next few years. It will grow to \$74.60 billion in 2029 at a compound annual growth rate CAGR of 25.3%. The growth in the forecast period can be attributed to increasing demand for automation in manufacturing, growing adoption of Industry 4.0 technologies, rising need for defect-free products, shift towards predictive maintenance, improved hardware capabilities for AI processing, and expanding use of AI in healthcare and security. Major trends in the forecast period include the integration of deep learning algorithms for enhanced defect detection, the

adoption of 3D imaging and high-resolution cameras, the adoption of real-time data processing with edge computing, the development of adaptive lighting technologies, advancements in robotic systems, and the implementation of cloud-based platforms.

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What Are The Main Drivers Of The AI Visual Inspection System Market?

The rise in demand for automation is expected to drive the growth of the artificial intelligence AI visual inspection system market going forward. Automation is the application of technology to carry out tasks automatically, reducing the need for human involvement and enhancing efficiency and precision. The demand for automation is increasing due to the need for higher efficiency, reduced labor costs, and improved accuracy in industrial and business processes. AI visual inspection systems enhance automation by enabling real-time, accurate detection of defects, inconsistencies, and quality issues, reducing human intervention while improving efficiency and consistency in production processes. For instance, in July 2024, according to a report published by Flow, a US-based workflow automation company, the workflow automation sector is growing at 20% per year and reached \$5 billion by 2024. Robotic process automation RPA leads with 31% adoption, while AI adoption is at 18%. Moreover, in May 2023, according to Formstack, a US-based software company, around 76% of organizations employ automation to optimize their daily workflows, 58% utilize automation for data and reporting to facilitate planning, and 36% integrate automation to ensure compliance with regulations. Therefore, the rise in demand for automation is driving the growth of the artificial intelligence AI visual inspection system market. To learn more, purchase the full report here: [Report Link](#)

Who Are The Key Players In The AI Visual Inspection System Market?

Major companies operating in the artificial intelligence AI visual inspection system market are Siemens AG, Intel Corporation, International Business Machines Corporation, Keyence Corporation, Omron Corporation, Teledyne Technologies Incorporated, Zebra Technologies Corporation, SICK AG, National Instruments Corporation, Cognex Corporation, Baumer Group, Datalogic S.p.A., ISRA Vision, VITRONIC Machine Vision GmbH, Basler AG, Matrox Imaging, Allied Vision Technologies, LMI Technologies, Stemmer Imaging, IDS Imaging Development Systems, Opto Engineering, Pleora Technologies, JAI A/S, Vision Components.

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What Are The Emerging Trends In The AI Visual Inspection System Market?

Major companies operating in the artificial intelligence AI visual inspection system market are

focusing on developing innovative technologies, such as integrating real-time AI-based in inspection systems, to enhance accuracy, speed, and efficiency in defect detection and quality control processes. Real-time AI is a technology that analyzes data and provides instant responses, allowing for immediate decision-making and actions based on real-time inputs. For instance, in August 2022, Advantech, a Taiwan-based industrial automation company, partnered with Overview, a US-based industrial automation company, and launched a real-time AI-based inspection system, the snap platform. It is a versatile machine vision system that streamlines device management, quality control, and traceability. Integrated with smart cameras, it performs automated inspections based on triggers or continuous video capture, storing process data and visual records for complete traceability.

### How Is The AI Visual Inspection System Market Segmented?

The artificial intelligence AI visual inspection system market covered in this report is segmented:

- 1 By Type: Deep Learning Model, Pre-Trained Model, Other Types
- 2 By Component: Hardware, Software, Services
- 3 By Application: Industrial, Medical Treatment, Semiconductor, Rail Transit, Other Applications

#### Subsegments:

- 1 By Deep Learning Model: Convolutional Neural Networks CNNs, Recurrent Neural Networks RNNs, Generative Adversarial Networks GANs, Transformer-Based Models, Self-Supervised Learning Models
- 2 By Pre-Trained Model: ImageNet-Based Models, Transfer Learning Models, Domain-Specific Pre-Trained Models, Vision Transformer ViT Models, Federated Learning Models
- 3 By Other Types: Rule-Based AI Inspection Systems, Hybrid AI Inspection Systems, Edge AI Visual Inspection Systems, Cloud-Based AI Inspection Systems, Traditional Machine Vision Systems with AI Integration

### What Is The Regional Breakdown Of The AI Visual Inspection System Market?

North America was the largest region in the artificial intelligence AI visual inspection system market in 2024. Asia-Pacific is expected to be the fastest-growing region in the forecast period. The regions covered in the artificial intelligence AI visual inspection system market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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Americas +1 3156230293

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

[info@tbrc.info](mailto:info@tbrc.info)

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