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Global AI Visual Inspection Software Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/GC2840ED69F2EN.html
Date: October 2026
Pages: 156
Price: US$ 3,660.00 (Single User License)
ID: GC2840ED69F2EN

Abstracts

The global AI Visual Inspection Software market size is predicted to grow from US$ 1810 million in 2025 to US$ 4839 million in 2032; it is expected to grow at a CAGR of 15.2% from 2026 to 2032.

In 2025, global AI Visual Inspection Software production reached approximately 103,000 licenses, with an average global market price of around USD 18,000 per license.

The gross profit margin of major companies in the industry is between 60%–80%.

In 2025, the global production capacity of AI Visual Inspection Software was approximately 140,000 licenses.

AI Visual Inspection Software is an intelligent industrial inspection software platform that uses artificial intelligence algorithms, deep learning, machine vision, and image processing technologies to automatically identify defects, measure dimensions, classify products, and analyze quality conditions during manufacturing processes. The software is typically integrated with industrial cameras, optical systems, sensors, and production equipment to replace or assist traditional manual inspection. It is widely used in semiconductor manufacturing, electronics assembly, automotive components, lithium batteries, pharmaceuticals, food processing, and precision manufacturing. The product boundary includes AI-based visual inspection software platforms and industrial inspection algorithms, excluding hardware components such as cameras, lenses, and complete inspection machines.

The AI visual inspection software industry chain includes upstream suppliers of AI chips,

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computing hardware, industrial cameras, optical components, image sensors, and data platforms; the midstream sector covers algorithm development, software platform design, model training, deployment tools, and industrial integration; the downstream sector includes manufacturing enterprises in electronics, semiconductors, automotive, batteries, pharmaceuticals, and consumer goods. Market growth is driven by industrial automation, labor cost increases, smart manufacturing development, and demand for higher inspection accuracy and production efficiency.

United States market for AI Visual Inspection Software is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI Visual Inspection Software is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI Visual Inspection Software is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI Visual Inspection Software players cover Cognex Corporation, Keyence Corporation, Omron Corporation, MVTec Software GmbH, Basler AG, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LPI (LP Information)' newest research report, the “AI Visual Inspection Software Industry Forecast” looks at past sales and reviews total world AI Visual Inspection Software sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Visual Inspection Software sales for 2026 through 2032. With AI Visual Inspection Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Visual Inspection Software industry.

This Insight Report provides a comprehensive analysis of the global AI Visual Inspection Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI Visual Inspection Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Visual Inspection Software market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Visual Inspection Software and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Visual Inspection Software.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Visual Inspection Software market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

2D Vision Inspection Software

3D Vision Inspection Software

Multimodal Vision Inspection Software

Segmentation by AI Model Type:

Classification-Based Vision Inspection Software

Detection-Based Vision Inspection Software

Segmentation-Based Vision Inspection Software

Segmentation by Image Processing Speed:

Low Speed (<10 Images/s)

Medium Speed (10–100 Images/s)

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High Speed (>100 Images/s)

Segmentation by Application:

Automated Manufacturing Inspection

Semiconductor and Electronics Inspection

Medical and Pharmaceutical Inspection

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Cognex Corporation

Keyence Corporation

Omron Corporation

MVTec Software GmbH

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Basler AG

Landing AI, Inc.

Teledyne Technologies Incorporated

SICK AG

Hexagon AB

ISRA Vision AG

Neurocle Inc.

Instrumental Inc.

Hangzhou Hikrobot Co., Ltd.

Aqrose Technology Co., Ltd.

AInnovation Technology Group Co., Ltd.

SmartMore Corporation Limited

OPT Machine Vision Technologies Co., Ltd.

Megvii Technology Limited

Dahua Technology Co., Ltd.

Shenzhen DeepSight AI Technology Co., Ltd.

SenseTime Group Inc.

Mech-Mind Robotics Technologies Ltd.

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