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Global AI Visual Inspection Software Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Visual Inspection Software market size was valued at US$ 1904 million in 2025 and is forecast to a readjusted size of US$ 4858 million by 2032 with a CAGR of 14.3% during review period.

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.

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

Report Scope

This report is a detailed and comprehensive analysis for global AI Visual Inspection Software market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Visual Inspection Software market size and forecasts, in consumption value ($ Million), 2021-2032

Global AI Visual Inspection Software market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global AI Visual Inspection Software market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global AI Visual Inspection Software market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Visual Inspection Software

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Visual Inspection Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cognex Corporation, Keyence Corporation, Omron Corporation, MVTec Software GmbH, Basler AG, Landing AI, Inc., Teledyne Technologies Incorporated, SICK AG, Hexagon AB, ISRA Vision AG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

AI Visual Inspection Software market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

2D Vision Inspection Software

3D Vision Inspection Software

Multimodal Vision Inspection Software

Market segment by AI Model Type

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Classification-Based Vision Inspection Software

Detection-Based Vision Inspection Software

Segmentation-Based Vision Inspection Software

Market segment by Image Processing Speed

Low Speed (<10 Images/s)

Medium Speed (10–100 Images/s)

High Speed (>100 Images/s)

Market segment by Application

Automated Manufacturing Inspection

Semiconductor and Electronics Inspection

Medical and Pharmaceutical Inspection

Other

Market segment by players, this report covers

Cognex Corporation

Keyence Corporation

Omron Corporation

MVTec Software GmbH

Basler AG

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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.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe AI Visual Inspection Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI Visual Inspection Software, with revenue, gross margin, and global market share of AI Visual Inspection Software from 2021 to 2026.

Chapter 3, the AI Visual Inspection Software competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and AI Visual Inspection Software market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI Visual Inspection Software.

Chapter 13, to describe AI Visual Inspection Software research findings and conclusion.

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