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Global AI-based Visual Quality Inspection Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global AI-based Visual Quality Inspection market size will reach USD 8179 million in 2031, growing at a CAGR of 17.3% over the analysis period.

Quality control (QC) is not new to manufacturing; it has always been an essential part of the process. QC initially took the form of manual inspections, which allowed inspectors to visually assess products or goods for defects. This very manual and time-consuming approach contributed to the high number of false nuisance cases. These QC methods evolved as technology advanced and began including mechanical tools for inspection or optical reconnaissance to aid human inspectors.

This was significant progress, but two critical challenges remained: 1) human inspectors can only work for so long before they become fatigued; this affects their deft abilities to uncover minute flaws even though seasoned experts miss subtle defects. Additionally, current products are more complex, and production lines work faster than inspection solutions used to. This is when AI inspection systems come to assume the task.

AI-first inspection systems automate this otherwise manual process by leveraging artificial intelligence (deep learning), machine vision, and computer algorithms. The result is an image- or sensor-data processing system that can work in real-time to identify any number of detail defects and deviations beyond the capability of human recognition, with better accuracy than a person will ever have.

This report is a detailed and comprehensive analysis for global AI-based Visual Quality Inspection market. Both quantitative and qualitative analyses are presented by

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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-based Visual Quality Inspection market size and forecasts, in consumption value ($ Million), 2020-2031

Global AI-based Visual Quality Inspection market size and forecasts by region and country, in consumption value ($ Million), 2020-2031

Global AI-based Visual Quality Inspection market size and forecasts, by Type and by Application, in consumption value ($ Million), 2020-2031

Global AI-based Visual Quality Inspection market shares of main players, in revenue ($ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for AI-based Visual Quality Inspection
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-based Visual Quality Inspection 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 Siemens, Trifork, Crayon, GFT Technologies, LandingAI, Lincode, SPIX industry, Fieldbox, Superb AI, Nordbo Robotics, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI-based Visual Quality Inspection market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and

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forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hardware

Software and Services

Market segment by Application

Electronics and Communications

Automobiles

Consumer Products

Industrial Raw Materials

Equipment Manufacturing

Others

Market segment by players, this report covers

Siemens

Trifork

Crayon

GFT Technologies

LandingAI

Lincode

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SPIX industry

Fieldbox

Superb AI

Nordbo Robotics

Markovate

Neurala

Baidu Yunzhi (Beijing) Technolog

Qingdao AInnovation Technology Group

Tencent Cloud Computing

Changzhou Weiyi Intelligent Manufacturing Technology

Beijing aqrose technology

Cognex Vision Inspection System

Huawei Investment & Holding

XSKY

Lintu Technology

Fitow (Tianjin) Detection Technology

Shanghai SenseTime Intelligent Technology

Rongcheer Industrial Technology

LUSTER LightTech

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Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)
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)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AI-based Visual Quality Inspection product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top players of AI-based Visual Quality Inspection, with revenue, gross margin, and global market share of AI-based Visual Quality Inspection from 2020 to 2025.
Chapter 3, the AI-based Visual Quality Inspection 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 2020 to 2031
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 2020 to 2025.and AI-based Visual Quality Inspection market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.
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-based Visual Quality Inspection.
Chapter 13, to describe AI-based Visual Quality Inspection research findings and conclusion.

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