

Global Automatic Visual Inspection Equipment Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Automatic Visual Inspection Equipment market size was valued at US\$ 1528 million in 2023. With growing demand in downstream market, the Automatic Visual Inspection Equipment is forecast to a readjusted size of US\$ 2583.4 million by 2030 with a CAGR of 7.8% during review period.

The research report highlights the growth potential of the global Automatic Visual Inspection Equipment market. Automatic Visual Inspection Equipment are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Automatic Visual Inspection Equipment. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Automatic Visual Inspection Equipment market.

Visual inspection equipment (AOI) is a device based on optical principles to detect common defects encountered in welding production. There are online and offline types. The online AOI uses a high-speed multi-frame camera with a multi-angle six-channel LED light source to collect images of the detected object, and obtains the defects of the detected object through visual algorithm operations; the offline type is similar to the online machine, but the cost is lower than that of online machines, and it is used for manual loading in offline use scenarios to meet the application needs of different customers.

In recent years, Chinese companies have continuously developed visual inspection equipment. Compared with international companies, the cost is relatively low and they have high cost-effective advantages; but overall, international brands have technological advantages and more obvious competitive advantages. The global Top5 companies are mainly Koh Young Technology, OMRON, Orbotech (KLA), Nordson YESTECH and Wuhan Jingce accounted for more than 40%. In the field of terminal applications, AOI accounts for a large proportion in the PCB industry, with a share of more than 60%. In terms of semiconductors, AOI is mainly used for wafer inspection, wire bonding inspection and IC substrate inspection, accounting for nearly 15%.

Key Features:

The report on Automatic Visual Inspection Equipment market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Automatic Visual Inspection Equipment market. It may include historical data, market segmentation by Type (e.g., Online, Offline), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Automatic Visual Inspection Equipment market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Automatic Visual Inspection Equipment market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Automatic Visual Inspection Equipment industry. This include advancements in Automatic Visual Inspection Equipment technology, Automatic Visual Inspection Equipment new entrants, Automatic Visual Inspection Equipment new investment, and other innovations that are shaping the future of Automatic Visual Inspection Equipment.

Downstream Procumbent Preference: The report can shed light on customer

procumbent behaviour and adoption trends in the Automatic Visual Inspection Equipment market. It includes factors influencing customer ' purchasing decisions, preferences for Automatic Visual Inspection Equipment product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Automatic Visual Inspection Equipment market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Automatic Visual Inspection Equipment market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Automatic Visual Inspection Equipment market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Automatic Visual Inspection Equipment industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Automatic Visual Inspection Equipment market.

Market Segmentation:

Automatic Visual Inspection Equipment market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Online

Offline

Segmentation by application

PCB

FPD

Semiconductor

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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.

Jutze Intelligence Tech

TRI

Koh Young Technology

ALeader Vision Technology

Saki Corporation

OMRON

Orbotech (KLA)

Nordson YESTECH

Test Research

Utechzone

Machvision

Viscom AG

Cyberoptics Corporation

Wuhan Jingce Electronic

Takano

Mirtec

Parmi

Pemtron

Hangzhou Sense

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automatic Visual Inspection Equipment market?

What factors are driving Automatic Visual Inspection Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automatic Visual Inspection Equipment market opportunities vary by end market size?

How does Automatic Visual Inspection Equipment break out type, application?

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