

# Global 3D Automated Optical Inspection Equipment in PCB Market Growth 2025-2031

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## Abstracts

The global 3D Automated Optical Inspection Equipment in PCB market size is predicted to grow from US\$ 567 million in 2025 to US\$ 2079 million in 2031; it is expected to grow at a CAGR of 24.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

3D Automated Optical Inspection (AOI) equipment in the context of Printed Circuit Boards (PCBs) refers to a technology used to inspect and assess the quality of PCBs during the manufacturing process. AOI is a crucial step in ensuring that PCBs are free from defects, errors, and manufacturing inconsistencies that could lead to malfunctioning or unreliable electronic devices.

Traditional 2D AOI systems inspect PCBs by capturing 2D images of the board's surface and comparing them to reference images of defect-free PCBs. However, 3D AOI takes the inspection process to a higher level of accuracy and precision by incorporating depth information in addition to the visual information.

According to our Semiconductor Research Center, the global total output value of PCB was about US\$ 81 billion in 2022. With strong drivers from new technology, such as AI, 5G and new energy vehicles, it is estimated that the PCB industry will continue to grow steadily in the next six years. Global PCB manufacturers are mainly located in China mainland, China Taiwan, Japan, South Korea, Europe and the United States. Among them, Chinese local PCB companies hold the biggest share.

LP Information, Inc. (LPI) ' newest research report, the “3D Automated Optical Inspection Equipment in PCB Industry Forecast” looks at past sales and reviews total world 3D Automated Optical Inspection Equipment in PCB sales in 2024, providing a comprehensive analysis by region and market sector of projected 3D Automated Optical Inspection Equipment in PCB sales for 2025 through 2031. With 3D Automated Optical Inspection Equipment in PCB sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D Automated Optical Inspection Equipment in PCB industry.

This Insight Report provides a comprehensive analysis of the global 3D Automated Optical Inspection Equipment in PCB landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 3D Automated Optical Inspection Equipment in PCB portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 3D Automated Optical Inspection Equipment in PCB market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Automated Optical Inspection Equipment in PCB 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 3D Automated Optical Inspection Equipment in PCB.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Automated Optical Inspection Equipment in PCB market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Inline 3D AOI

Offline 3D AOI

### **Segmentation by Application:**

Automotive Electronics

Consumer Electronics

Industrials

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 analysing the company's coverage, product portfolio, its market penetration.

Koh Young Technology

Mirtec

ViTrox Corporation Berhad

Saki Corporation

Cyberoptics Corporation

Omron Corporation

Viscom

Test Research

Parmi Corp

VI Technology (Mycronic)

G?PEL electronic GmbH

Machine Vision Products (MVP)

Mek Marantz Electronics

Pemtron Corp.

Nordson YESTECH

JUTZE Intelligence Technology

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global 3D Automated Optical Inspection Equipment in PCB market?

What factors are driving 3D Automated Optical Inspection Equipment in PCB market growth, globally and by region?

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

How do 3D Automated Optical Inspection Equipment in PCB market opportunities vary by end market size?

How does 3D Automated Optical Inspection Equipment in PCB break out by Type, by Application?

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