


# Automated Optical Inspection Market Forecast, 2021-2030: Key Drivers and Emerging Trends Shaping the Future

*Automated Optical Inspection Market Expected to Reach \$3.29 Billion by 2030- Allied Market Research*

WILMINGTON, DE, UNITED STATES, November 22, 2024 / EINPresswire.com/ -- Allied Market Research, titled, "[Automated optical inspection market](#) by type, application, and industry vertical: global opportunity analysis and industry forecast, 2021–2030," the global automated optical inspection market size was valued at \$0.57 billion in 2020, and is projected to reach \$3.29 billion by 2030, registering a CAGR of 21.0% from 2021 to 2030.



The graphic features a background image of a worker in a pink shirt and cap operating an automated optical inspection machine. Overlaid on the left is a white box with the following text: "Global **AUTOMATED OPTICAL INSPECTION** Market OPPORTUNITIES AND FORECAST, 2021-2030", "Global Automated Optical Inspection Market is expected to reach **\$3.29 Billion** by 2030", and "Growing at a **CAGR of 21.0%** (2021-2030)". The Allied Market Research logo is in the bottom right corner of the image.

Automated Optical Inspection Market

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Increasing demand for automated optical inspection systems in automotive electronics, and miniaturization of printed circuit boards.”

*Allied Market Research*

Automated optical inspection (AOI) is the computerized system for visual assessment on a printed circuit board (PCB) where an independent camera filters a gadget that is to be tried for both cataclysmic failure and quality deformities. It is most usually utilized for assembling processes as it is a test strategy that doesn't need any contact. It is executed through different phases of the assembling system which incorporates exposed board investigations, SPI (bind glue assessments), pre-reflows,

and post-reflows among different stages. Automated optical inspection empowers a quick and precise assessment of the hardware gathering and specifically printed circuit board guaranteeing the quality of a product manufactured on the production line is ideal and the product is effectively produced with practically no assembling issues. Automated optical inspection systems

apply various methods for fault identification in the printed circuit board. One of the strategies is layout coordination which looks at the picture of the printed circuit board and the golden board. Other methods utilized are design coordinating and statistical pattern matching.

Significant factors that impact the growth of the automated optical inspection market include significant demand for consumer electronics, automation of electronics manufacturing facilities, and the emergence of surface mount technology. However, the sophisticated infrastructure required to handle large amounts of data hampers the market growth. On the contrary, the emergence of SMART technology is expected to offer lucrative opportunities for the [automated optical inspection market trends](#) during the forecast period.

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The Automated Optical Inspection industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Some of the key players in the Automated Optical Inspection market are:

- Daiichi Jitsugyo Asia Pte. Ltd.
- CyberOptics
- OMRON Corporation
- Nordson Corporation
- Viscom AG
- KOH YOUNG TECHNOLOGY Inc.
- MIRTEC CO., LTD.
- Saki Corporation
- Test Research, Inc.
- GOPEL electronic GmbH

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The emergence of coronavirus has become a disastrous issue worldwide. However, it has positively influenced the automated optical inspection industry. With the COVID-19 pandemic, the world had mostly shifted to working and adapting distantly in 2020. This change had consumers scrambling to get their hands on smartphones, PCs, screens, microphones, consoles, cameras, and even gadgets, such as smart coffee makers and advanced foot massagers, which empower them to work anyplace they need and do as comfortably. Homes are bound to get

more comfortable as people spending most time indoors has led to increased investments in technology upgrades. This has additionally prompted rising demand for innovative consumer electronics. Consequently, there is an upsurge in demand for [automated optical inspection market growth](#) during the pandemic.

Region-wise, Asia-Pacific holds a significant share of the global automated optical inspection market. China dominates the market share in this region, owing to the presence of several leading manufacturers in the region. Besides, increasing demand for consumer electronics has also contributed to the growth of automated optical inspection in the region.

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Key highlights of the report:

- In 2020, the 3D segment accounted for maximum revenue and is projected to grow at a notable CAGR of 23.9% during the automated optical inspection market forecast period.
- The consumer electronics and automotive segments together accounted for more than 45.0% of the automated optical inspection market share in 2020.
- The assembly phase segment of the automated optical inspection market analysis is projected to grow at a CAGR of 25.0% during the forecast period.
- Asia-Pacific contributed a major share in the automated optical inspection market, accounting for more than 45.0% share in 2020.

Key highlights:

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