

North America Automated Optical Inspection Systems Market By Type (2D AOI and 3D AOI), By Technology (Inline and Offline), By Vertical (IT & Telecom, Electronics, Healthcare & Social Assistance, Automotive, Aerospace & Defense and Others), By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The North America Automated Optical Inspection Systems Market would witness market growth of 17.8% CAGR during the forecast period (2020-2026).

Automated optical inspection systems are used for the inspection of PCBs. These systems allow rapid and accurate inspection of PCBs and ensure that the best product exits the production line. The growth of this market is attributed to increasing demand for consumer products, higher efficiency in electronic manufacturing services and high-quality electronic systems for automotive and aerospace systems. In addition, increasing faults and time usage in manual inspection techniques for printed circuit boards are expected to increase the use of the AOI system.

The industry is also expected to be driven by the introduction of artificial intelligence technologies. The integration of artificial intelligence with automatic optical inspection systems can improve image data processing and enable better collaboration between the CPU and the GPU. In addition, the AI-based system can be run remotely via a laptop. This is expected to increase the level at which faults is found, thereby increasing the efficiency of the inspection process.

Given the major improvements that have been made, new circuits remain much more complex than boards were a few years earlier. The advent of surface mount technology



and subsequent further decreases in size indicate that the boards are especially compact. Only the relatively average boards contain thousands of soldered joints, and this is where most of the issues are discovered. The rise in the size of the boards often ensures that manual testing is not a feasible choice these days. And when it became an approved method, it was discovered that it was not particularly effective as soon as the investigators became tired and poor and inaccurate work was easily missed.

Based on Type, the market is segmented into 2D AOI and 3D AOI. Based on Technology, the market is segmented into Inline and Offline. Based on Vertical, the market is segmented into IT & Telecom, Electronics, Healthcare & Social Assistance, Automotive, Aerospace & Defense and Others. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Omron Corporation, Viscom AG, Test Research, Inc., Nordson Corporation, Koh Young Technology, Inc., CyberOptics Corporation, Daiichi Jitsugyo Co., Ltd. (Daiichi Jitsugyo Asia Pte. Ltd.), Gopel Electronic GmbH, MIRTEC Co., Ltd., Saki Corporation.

Scope of the Study

Market Segmentation:

Ву Туре

2D AOI

3D AOI

By Technology

Inline

Offline

By Vertical



IT & Telecom

Electronics

Healthcare & Social Assistance

Automotive

Aerospace & Defense

Others

By Country

US

Canada

Mexico

Rest of North America

Companies Profiled

Omron Corporation

Viscom AG

Test Research, Inc.

Nordson Corporation

Koh Young Technology, Inc.

CyberOptics Corporation

Daiichi Jitsugyo Co., Ltd. (Daiichi Jitsugyo Asia



Pte. Ltd.)

Gopel Electronic GmbH

MIRTEC Co., Ltd.

Saki Corporation

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