

Global PCB Optical Inspection Systems Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G8A599E6EE22EN.html>

Date: October 2025

Pages: 143

Price: US\$ 3,132.00 (Single User License)

ID: G8A599E6EE22EN

Abstracts

According to our (Global Info Research) latest study, the global PCB Optical Inspection Systems market size was valued at US\$ 707 million in 2024 and is forecast to a readjusted size of USD 1083 million by 2031 with a CAGR of 6.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

PCB optical inspection system (AOI, Automated Optical Inspection) is a device used to automatically check defects and quality issues in the manufacturing process of printed circuit boards (PCB). It uses high-resolution cameras and advanced image processing technology to capture images of the PCB surface and compare them with preset standards or templates to identify potential defects.

This report is a detailed and comprehensive analysis for global PCB Optical Inspection Systems market. Both quantitative and qualitative analyses are presented by manufacturers, 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 PCB Optical Inspection Systems market size and forecasts, in consumption

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value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCB Optical Inspection Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCB Optical Inspection Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCB Optical Inspection Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 PCB Optical Inspection Systems
- 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 PCB Optical Inspection Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Gardien, Manncorp, Nordson, OMRON, Vision Engineering, Bruker, HB Technology, KohYoung Technology, Mirtec, SAKI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PCB Optical Inspection Systems market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fully Automatic

Semi-automatic

Market segment by Application

Online Detection

Offline Detection

Major players covered

Gardien

Manncorp

Nordson

OMRON

Vision Engineering

Bruker

HB Technology

KohYoung Technology

Mirtec

SAKI

TRI

Viscom

CyberOptics

ViTrox Corporation

Orbotech

Shenzhen Leadaoi

Shenzhen Magic Ray

Guangzhou Maker Ray

Jutze

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PCB Optical Inspection Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCB Optical Inspection Systems, with price, sales quantity, revenue, and global market share of PCB Optical Inspection Systems from 2020 to 2025.

Chapter 3, the PCB Optical Inspection Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCB Optical Inspection Systems breakdown data are shown at the

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regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and PCB Optical Inspection Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PCB Optical Inspection Systems.

Chapter 14 and 15, to describe PCB Optical Inspection Systems sales channel, distributors, customers, research findings and conclusion.

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