

Global Intelligent PCB Board Defect Detection System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Intelligent PCB Board Defect Detection System market size was valued at US\$ 2550 million in 2024 and is forecast to a readjusted size of USD 4143 million by 2031 with a CAGR of 7.3% during review period.

The intelligent PCB board defect detection system is a system that automates the inspection and quality control of the printed circuit board (PCB) production process by applying modern technology, especially computer vision, artificial intelligence (AI), machine learning and image processing technology. The system can quickly and accurately detect defects and problems on the PCB board, including welding problems, printing defects, line shorts, open circuits, incorrect component positions, etc., to improve production efficiency, reduce manual intervention, and ensure product quality.

This report is a detailed and comprehensive analysis for global Intelligent PCB Board Defect Detection System 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.

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.

Key Features:

Global Intelligent PCB Board Defect Detection System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Intelligent PCB Board Defect Detection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Intelligent PCB Board Defect Detection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Intelligent PCB Board Defect Detection System market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Intelligent PCB Board Defect Detection System
- 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 Intelligent PCB Board Defect Detection System 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 Nordson, G?PEL Electronic, Stratus Vision, Smart Vision, Mirtec, AOI Systems, CHROMA ATE, Optima, Test Research, Viscom, etc.

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

Market Segmentation

Intelligent PCB Board Defect Detection System 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

Automatic Optical Inspection Technology (AOI)

X-ray Inspection (AXI)

Others

Market segment by Application

Consumer Electronics

Automotive Electronics

Communication Equipment

Others

Major players covered

Nordson

GP&L Electronic

Stratus Vision

Smart Vision

Mirtec

AOI Systems

CHROMA ATE

Optima

Test Research

Viscom

JUTZE Intelligence Technology

Dingyang Technology

CyberOptics

Orbotech

Takano

Jingce Electronics

Northeast Control

Sunny Optical

Shennan Circuits

Semy Control

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 Intelligent PCB Board Defect Detection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Intelligent PCB Board Defect Detection System, with price, sales quantity, revenue, and global market share of Intelligent PCB Board Defect Detection System from 2020 to 2025.

Chapter 3, the Intelligent PCB Board Defect Detection System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Intelligent PCB Board Defect Detection System breakdown data are shown at the 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 Intelligent PCB Board Defect Detection System 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 Intelligent PCB Board Defect Detection System.

Chapter 14 and 15, to describe Intelligent PCB Board Defect Detection System sales channel, distributors, customers, research findings and conclusion.

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