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Global PCB Defect Detection System Market Growth 2025-2031

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Abstracts

The global PCB Defect Detection System market size is predicted to grow from US$ 2578 million in 2025 to US$ 4041 million in 2031; it is expected to grow at a CAGR of 7.8% from 2025 to 2031.

PCB multi-type defect detection system is a device used to automatically identify and detect various defects that occur in the manufacturing process of printed circuit boards (PCBs). It mainly uses technologies such as automatic optical inspection (AOI), X-ray inspection (AXI), electrical testing (ICT), laser scanning and 3D inspection to accurately detect short circuits, open circuits, welding defects, component position deviations, surface damage, interlayer connection problems, etc. The system is widely used in consumer electronics, automotive electronics, communication equipment, medical equipment and industrial control to ensure PCB quality and reliability and meet the production needs of high-precision and high-density PCBs.

United States market for PCB Defect Detection System is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for PCB Defect Detection System is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for PCB Defect Detection System is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key PCB Defect Detection System players cover Nordson, G?PEL Electronic, Stratus Vision, Smart Vision, Mirtec, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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

This Insight Report provides a comprehensive analysis of the global PCB Defect Detection System 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 PCB Defect Detection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global PCB Defect Detection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PCB Defect Detection System 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 PCB Defect Detection System.

This report presents a comprehensive overview, market shares, and growth opportunities of PCB Defect Detection System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Automatic Optical Inspection Technology ?AOI?)

X-ray Inspection (AXI)

Others

Segmentation by Application:

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Consumer Electronics

Automotive Electronics

Communication Equipment

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

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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.

Nordson

G?PEL Electronic

Stratus Vision

Smart Vision

Mirtec

AOI Systems

CHROMA ATE

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Optima

Test Research

Viscom

JUTZE Intelligence Technology

Dingyang Technology

CyberOptics

Orbotech

Takano

Jingce Electronics

Northeast Control

Sunny Optical

Shennan Circuits

Semy Control

Key Questions Addressed in this Report
What is the 10-year outlook for the global PCB Defect Detection System market?
What factors are driving PCB Defect Detection System market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do PCB Defect Detection System market opportunities vary by end market size?
How does PCB Defect Detection System break out by Type, by Application?

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