

# Global Industrial Defect Detection Software Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Industrial Defect Detection Software market size is predicted to grow from US\$ 713 million in 2025 to US\$ 1212 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

Industrial Defect Detection Software refers to an intelligent software system that uses computer vision, image processing, and machine learning technologies to automatically identify, classify, and analyze surface defects, internal defects, dimensional deviations, assembly anomalies, and other problems encountered in the production process of industrial products. Its core functions include defect location (scratches, dents, cracks, dirt, burrs), defect classification, real-time detection, and data traceability. The software is typically integrated into industrial cameras, edge computing devices, or quality inspection workstations, supporting interfaces with PLCs and MES systems to achieve automatic feedback of detection results and production line linkage. It is widely used in industries such as semiconductors, 3C electronics, lithium batteries, automotive parts, steel metallurgy, photovoltaics, and textiles, aiming to replace manual visual inspection, improve inspection consistency, reduce missed detection rates, and achieve digital control of the entire quality process.

United States market for Industrial Defect Detection Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Industrial Defect Detection Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Industrial Defect Detection Software is estimated to increase from

US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Industrial Defect Detection Software players cover Straive, Mitutoyo, EasyODM, ScienceSoft, Flowdit, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Industrial Defect Detection Software Industry Forecast' looks at past sales and reviews total world Industrial Defect Detection Software sales in 2025, providing a comprehensive analysis by region and market sector of projected Industrial Defect Detection Software sales for 2026 through 2032. With Industrial Defect Detection Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Industrial Defect Detection Software industry.

This Insight Report provides a comprehensive analysis of the global Industrial Defect Detection Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Industrial Defect Detection Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Industrial Defect Detection Software market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial Defect Detection Software market by product type, application, key players and key regions and countries.

Segmentation by Type:

Machine Vision Software

Deep Learning Software

Anomaly Detection Software

Others

#### Segmentation by Deployment:

Production Line Embedded Type

Offline/Workstation Type

Edge Deployment Type

Cloud-Based Type

#### Segmentation by Function:

Surface Defect Inspection

Dimensional Defect Inspection

Color and Texture Defect Inspection

Assembly Defect Inspection

Others

#### Segmentation by Application:

Electronics and Semiconductors

New Energy and Lithium Batteries

Automobile Manufacturing

Metal Processing

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

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 analyzing the company's coverage, product portfolio, its market penetration.

Straive

Mitutoyo

EasyODM

ScienceSoft

Flowdit

GE Vernova

Syntegon

Lumiform

Cognex

PEKAT VISION

Oxipital AI

Averroes AI

PTC

Elementary

Siemens

Akridata

Ckvision

Xamv

ArcSoft

Advantech

Hikvision

ADLINK Technology

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