

# Global Industrial Defect Detection Software Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Industrial Defect Detection Software market size is expected to reach \$ 1243 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Industrial Defect Detection Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Defect Detection Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Industrial Defect Detection Software that contribute to its increasing demand across many markets.

**Highlights and key features of the study**

Global Industrial Defect Detection Software total market, 2021-2032, (USD Million)

Global Industrial Defect Detection Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Industrial Defect Detection Software total market, key domestic companies, and share, (USD Million)

Global Industrial Defect Detection Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Industrial Defect Detection Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Industrial Defect Detection Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Industrial Defect Detection Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Straive, Mitutoyo, EasyODM, ScienceSoft, Flowdit, GE Vernova, Syntegon, Lumiform, Cognex, PEKAT VISION, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Industrial Defect Detection Software market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Industrial Defect Detection Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Industrial Defect Detection Software Market, Segmentation by Type:

Machine Vision Software

Deep Learning Software

Anomaly Detection Software

Others

#### Global Industrial Defect Detection Software Market, Segmentation by Deployment:

Production Line Embedded Type

Offline/Workstation Type

Edge Deployment Type

Cloud-Based Type

#### Global Industrial Defect Detection Software Market, Segmentation by Function:

Surface Defect Inspection

Dimensional Defect Inspection

Color and Texture Defect Inspection

Assembly Defect Inspection

Others

Global Industrial Defect Detection Software Market, Segmentation by Application:

Electronics and Semiconductors

New Energy and Lithium Batteries

Automobile Manufacturing

Metal Processing

Others

Companies Profiled:

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

### Key Questions Answered

1. How big is the global Industrial Defect Detection Software market?
2. What is the demand of the global Industrial Defect Detection Software market?
3. What is the year over year growth of the global Industrial Defect Detection Software market?
4. What is the total value of the global Industrial Defect Detection Software market?
5. Who are the Major Players in the global Industrial Defect Detection Software market?
6. What are the growth factors driving the market demand?

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