

Global Industrial Defect Detection Software Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Defect Detection Software market size was valued at US\$ 750 million in 2025 and is forecast to a readjusted size of US\$ 1243 million by 2032 with a CAGR of 7.3% during review period.

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 is a detailed and comprehensive analysis for global Industrial Defect Detection Software market. Both quantitative and qualitative analyses are presented by company, 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 Industrial Defect Detection Software market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Industrial Defect Detection Software market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Industrial Defect Detection Software market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Industrial Defect Detection Software market shares of main players, in revenue (\$ Million), 2021-2026

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 Industrial Defect Detection Software

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 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.

Market segmentation

Industrial Defect Detection Software market is split by Type and by Application. For the

Global Industrial Defect Detection Software Market 2026 by Company, Regions, Type and Application, Forecast to...

period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Machine Vision Software

Deep Learning Software

Anomaly Detection Software

Others

Market segment by Deployment

Production Line Embedded Type

Offline/Workstation Type

Edge Deployment Type

Cloud-Based Type

Market segment by Function

Surface Defect Inspection

Dimensional Defect Inspection

Color and Texture Defect Inspection

Assembly Defect Inspection

Others

Market segment by Application

Electronics and Semiconductors

New Energy and Lithium Batteries

Automobile Manufacturing

Metal Processing

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Industrial Defect Detection Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Industrial Defect Detection Software, with revenue, gross margin, and global market share of Industrial Defect Detection Software from 2021 to 2026.

Chapter 3, the Industrial Defect Detection Software competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Industrial Defect Detection Software market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Industrial Defect Detection Software.

Chapter 13, to describe Industrial Defect Detection Software research findings and conclusion.

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