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Global AI Industrial Defect Detection Market Growth (Status and Outlook) 2025-2031

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Abstracts

According to this study, the global AI Industrial Defect Detection market size will reach US$ 4386 million by 2031.

AI Industrial Defect Detection refers to the process of using artificial intelligence (especially computer vision and deep learning) technology to automatically detect defects in products or parts in the industrial production process. Its core goal is to identify tiny defects on the surface or inside of the product (such as cracks, scratches, bubbles, deformation, etc.) through machine learning algorithms, thereby improving product quality, reducing labor costs and optimizing production efficiency.

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

Global key AI Industrial Defect Detection players cover Intelgic, Advantech, Gramener, GFT, Kili Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LPI (LP Information)' newest research report, the “AI Industrial Defect Detection Industry Forecast” looks at past sales and reviews total world AI Industrial Defect Detection sales in 2024, providing a comprehensive analysis by region and market

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sector of projected AI Industrial Defect Detection sales for 2025 through 2031. With AI Industrial Defect Detection sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Industrial Defect Detection industry.

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

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

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

Segmentation by Type:

Defect Detection Based on Deep Learning

Defect Detection Based on Traditional Computer Vision

Defect Detection Based on Unsupervised Learning

Others

Segmentation by Application:

Electronics Manufacturing

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- Automobile Manufacturing
- Metal Processing
- Apparel and Textiles
- Packaging
- Aerospace and Defense
- Photovoltaics
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India

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- 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.

- Intelgic
- Advantech
- Gramener
- GFT

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Kili Technology

Optimax

Unilin Group

Huawei Enterprise

Extreme Vision

NeuroSYS

Mobidev

Siemens

TrueFlaw

Averroes

Cognex

Omron

IVISYS

National Instruments

iMerit

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