

Global AI Defect Detection Market Research Report 2026(Status and Outlook)

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Abstracts

AI Defect Detection is a technology that uses artificial intelligence technology, especially machine learning and computer vision, to automatically identify and classify product defects in the manufacturing process. This technology can significantly improve the accuracy and efficiency of detection and reduce the cost and error rate of manual inspection.

The global AI Defect Detection market size was estimated at USD 3621.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global AI Defect Detection market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global AI Defect Detection market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the AI Defect Detection market.

Global AI Defect Detection Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

MobiDev
Vanti
Elisa IndustrIQ
Viso AI
Mitutoyo
DAC.digital
Averroes AI
Musashi AI
Neurala
Optelos
Energy Robotics
GE Vernova
SwitchOn
Oxipital AI
Loopr AI
Kitov.ai
3HLE
IBM Maximo

ROO.AI
Paraspot AI

Market Segmentation (by Type)

Real-Time Defect Detection
Offline Defect Detection

Market Segmentation (by Application)

Industrial Production
Food & Beverage
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the AI Defect Detection Market
Overview of the regional outlook of the AI Defect Detection Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the AI Defect Detection Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of AI Defect Detection, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of AI Defect Detection
- 1.2 Key Market Segments
 - 1.2.1 AI Defect Detection Segment by Type
 - 1.2.2 AI Defect Detection Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 AI DEFECT DETECTION MARKET OVERVIEW

- 2.1 Global Market Overview
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 AI DEFECT DETECTION MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global AI Defect Detection Product Life Cycle
- 3.3 Global AI Defect Detection Revenue Market Share by Company (2020-2025)
- 3.4 AI Defect Detection Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.5 Headquarters, Areas Served, and Product Types of Major Players
- 3.6 AI Defect Detection Market Competitive Situation and Trends
 - 3.6.1 AI Defect Detection Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest AI Defect Detection Players Market Share by Revenue
 - 3.6.3 Mergers & Acquisitions, Expansion

4 AI DEFECT DETECTION VALUE CHAIN ANALYSIS

- 4.1 AI Defect Detection Value Chain Analysis
- 4.2 Midstream Market Analysis
- 4.3 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AI DEFECT DETECTION MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global AI Defect Detection Market Porter's Five Forces Analysis

6 AI DEFECT DETECTION MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global AI Defect Detection Market by Type (2020-2025)

6.3 Global AI Defect Detection Market Size Growth Rate by Type (2021-2025)

7 AI DEFECT DETECTION MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global AI Defect Detection Market Size (M USD) by Application (2020-2025)

7.3 Global AI Defect Detection Market Size Growth Rate by Application (2021-2025)

8 AI DEFECT DETECTION MARKET SEGMENTATION BY REGION

8.1 Global AI Defect Detection Market Size by Region

8.1.1 Global AI Defect Detection Market Size by Region

8.1.2 Global AI Defect Detection Market Size Market Share by Region

8.2 North America

8.2.1 North America AI Defect Detection Market Size by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe AI Defect Detection Market Size by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Spain

8.4 Asia Pacific

8.4.1 Asia Pacific AI Defect Detection Market Size by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America AI Defect Detection Market Size by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa AI Defect Detection Market Size by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 MobiDev

9.1.1 MobiDev Basic Information

9.1.2 MobiDev AI Defect Detection Product Overview

9.1.3 MobiDev AI Defect Detection Product Market Performance

9.1.4 MobiDev SWOT Analysis

9.1.5 MobiDev Business Overview

9.1.6 MobiDev Recent Developments

9.2 Vanti

9.2.1 Vanti Basic Information

9.2.2 Vanti AI Defect Detection Product Overview

- 9.2.3 Vanti AI Defect Detection Product Market Performance
- 9.2.4 Vanti SWOT Analysis
- 9.2.5 Vanti Business Overview
- 9.2.6 Vanti Recent Developments
- 9.3 Elisa IndustrIQ
 - 9.3.1 Elisa IndustrIQ Basic Information
 - 9.3.2 Elisa IndustrIQ AI Defect Detection Product Overview
 - 9.3.3 Elisa IndustrIQ AI Defect Detection Product Market Performance
 - 9.3.4 Elisa IndustrIQ SWOT Analysis
 - 9.3.5 Elisa IndustrIQ Business Overview
 - 9.3.6 Elisa IndustrIQ Recent Developments
- 9.4 Viso AI
 - 9.4.1 Viso AI Basic Information
 - 9.4.2 Viso AI AI Defect Detection Product Overview
 - 9.4.3 Viso AI AI Defect Detection Product Market Performance
 - 9.4.4 Viso AI Business Overview
 - 9.4.5 Viso AI Recent Developments
- 9.5 Mitutoyo
 - 9.5.1 Mitutoyo Basic Information
 - 9.5.2 Mitutoyo AI Defect Detection Product Overview
 - 9.5.3 Mitutoyo AI Defect Detection Product Market Performance
 - 9.5.4 Mitutoyo Business Overview
 - 9.5.5 Mitutoyo Recent Developments
- 9.6 DAC.digital
 - 9.6.1 DAC.digital Basic Information
 - 9.6.2 DAC.digital AI Defect Detection Product Overview
 - 9.6.3 DAC.digital AI Defect Detection Product Market Performance
 - 9.6.4 DAC.digital Business Overview
 - 9.6.5 DAC.digital Recent Developments
- 9.7 Averroes AI
 - 9.7.1 Averroes AI Basic Information
 - 9.7.2 Averroes AI AI Defect Detection Product Overview
 - 9.7.3 Averroes AI AI Defect Detection Product Market Performance
 - 9.7.4 Averroes AI Business Overview
 - 9.7.5 Averroes AI Recent Developments
- 9.8 Musashi AI
 - 9.8.1 Musashi AI Basic Information
 - 9.8.2 Musashi AI AI Defect Detection Product Overview
 - 9.8.3 Musashi AI AI Defect Detection Product Market Performance

- 9.8.4 Musashi AI Business Overview
- 9.8.5 Musashi AI Recent Developments
- 9.9 Neurala
 - 9.9.1 Neurala Basic Information
 - 9.9.2 Neurala AI Defect Detection Product Overview
 - 9.9.3 Neurala AI Defect Detection Product Market Performance
 - 9.9.4 Neurala Business Overview
 - 9.9.5 Neurala Recent Developments
- 9.10 Optelos
 - 9.10.1 Optelos Basic Information
 - 9.10.2 Optelos AI Defect Detection Product Overview
 - 9.10.3 Optelos AI Defect Detection Product Market Performance
 - 9.10.4 Optelos Business Overview
 - 9.10.5 Optelos Recent Developments
- 9.11 Energy Robotics
 - 9.11.1 Energy Robotics Basic Information
 - 9.11.2 Energy Robotics AI Defect Detection Product Overview
 - 9.11.3 Energy Robotics AI Defect Detection Product Market Performance
 - 9.11.4 Energy Robotics Business Overview
 - 9.11.5 Energy Robotics Recent Developments
- 9.12 GE Vernova
 - 9.12.1 GE Vernova Basic Information
 - 9.12.2 GE Vernova AI Defect Detection Product Overview
 - 9.12.3 GE Vernova AI Defect Detection Product Market Performance
 - 9.12.4 GE Vernova Business Overview
 - 9.12.5 GE Vernova Recent Developments
- 9.13 SwitchOn
 - 9.13.1 SwitchOn Basic Information
 - 9.13.2 SwitchOn AI Defect Detection Product Overview
 - 9.13.3 SwitchOn AI Defect Detection Product Market Performance
 - 9.13.4 SwitchOn Business Overview
 - 9.13.5 SwitchOn Recent Developments
- 9.14 Oxipital AI
 - 9.14.1 Oxipital AI Basic Information
 - 9.14.2 Oxipital AI AI Defect Detection Product Overview
 - 9.14.3 Oxipital AI AI Defect Detection Product Market Performance
 - 9.14.4 Oxipital AI Business Overview
 - 9.14.5 Oxipital AI Recent Developments
- 9.15 Loopr AI

- 9.15.1 Loopr AI Basic Information
- 9.15.2 Loopr AI AI Defect Detection Product Overview
- 9.15.3 Loopr AI AI Defect Detection Product Market Performance
- 9.15.4 Loopr AI Business Overview
- 9.15.5 Loopr AI Recent Developments
- 9.16 Kitov.ai
 - 9.16.1 Kitov.ai Basic Information
 - 9.16.2 Kitov.ai AI Defect Detection Product Overview
 - 9.16.3 Kitov.ai AI Defect Detection Product Market Performance
 - 9.16.4 Kitov.ai Business Overview
 - 9.16.5 Kitov.ai Recent Developments
- 9.17 3HLE
 - 9.17.1 3HLE Basic Information
 - 9.17.2 3HLE AI Defect Detection Product Overview
 - 9.17.3 3HLE AI Defect Detection Product Market Performance
 - 9.17.4 3HLE Business Overview
 - 9.17.5 3HLE Recent Developments
- 9.18 IBM Maximo
 - 9.18.1 IBM Maximo Basic Information
 - 9.18.2 IBM Maximo AI Defect Detection Product Overview
 - 9.18.3 IBM Maximo AI Defect Detection Product Market Performance
 - 9.18.4 IBM Maximo Business Overview
 - 9.18.5 IBM Maximo Recent Developments
- 9.19 ROO.AI
 - 9.19.1 ROO.AI Basic Information
 - 9.19.2 ROO.AI AI Defect Detection Product Overview
 - 9.19.3 ROO.AI AI Defect Detection Product Market Performance
 - 9.19.4 ROO.AI Business Overview
 - 9.19.5 ROO.AI Recent Developments
- 9.20 Paraspot AI
 - 9.20.1 Paraspot AI Basic Information
 - 9.20.2 Paraspot AI AI Defect Detection Product Overview
 - 9.20.3 Paraspot AI AI Defect Detection Product Market Performance
 - 9.20.4 Paraspot AI Business Overview
 - 9.20.5 Paraspot AI Recent Developments

10 AI DEFECT DETECTION MARKET FORECAST BY REGION

10.1 Global AI Defect Detection Market Size Forecast

10.2 Global AI Defect Detection Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe AI Defect Detection Market Size Forecast by Country

10.2.3 Asia Pacific AI Defect Detection Market Size Forecast by Region

10.2.4 South America AI Defect Detection Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Sales of AI Defect Detection by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

11.1 Global AI Defect Detection Market Forecast by Type (2026-2035)

11.1.1 Global AI Defect Detection Market Size Forecast by Type (2026-2035)

11.2 Global AI Defect Detection Market Forecast by Application (2026-2035)

11.2.1 Global AI Defect Detection Market Size (M USD) Forecast by Application (2026-2035)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global AI Defect Detection Market Size by Type (M USD)
- Table 4. Global AI Defect Detection Market Size by Application
- Table 5. AI Defect Detection Market Size Comparison by Region (M USD)
- Table 6. Global AI Defect Detection Revenue (M USD) by Company (2020-2025)
- Table 7. Global AI Defect Detection Revenue Share by Company (2020-2025)
- Table 8. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in AI Defect Detection as of 2025)
- Table 9. Headquarters, Areas Served, and Product Types of Major Players
- Table 10. Product Type of Major Players
- Table 11. Global AI Defect Detection Company Market Concentration Ratio (CR5 and HHI)
- Table 12. Mergers & Acquisitions, Expansion Plans
- Table 13. Midstream Market Analysis
- Table 14. Downstream Customer Analysis
- Table 15. Key Development Trends
- Table 16. Driving Factors
- Table 17. AI Defect Detection Market Challenges
- Table 18. Goldman Sachs' forecast real GDP growth rate for 2024-2026
- Table 19. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
- Table 20. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
- Table 21. Global AI Defect Detection Market Size by Type (M USD)
- Table 22. Global AI Defect Detection Market Size (M USD) by Type (2020-2025)
- Table 23. Global AI Defect Detection Market Share by Type (2020-2025)
- Table 24. Global AI Defect Detection Market Size Growth Rate by Type (2021-2025)
- Table 25. Global AI Defect Detection Market Size by Application
- Table 26. Global AI Defect Detection Market Size by Application (2020-2025) & (M USD)
- Table 27. Global AI Defect Detection Market Share by Application (2020-2025)
- Table 28. Global AI Defect Detection Market Size Growth Rate by Application (2021-2025)
- Table 29. Global AI Defect Detection Market Size by Region (2020-2025) & (M USD)
- Table 30. Global AI Defect Detection Market Size Market Share by Region (2020-2025)
- Table 31. North America AI Defect Detection Market Size by Country (2020-2025) & (M

USD)

Table 32. Europe AI Defect Detection Market Size by Country (2020-2025) & (M USD)

Table 33. Asia Pacific AI Defect Detection Market Size by Region (2020-2025) & (M USD)

Table 34. South America AI Defect Detection Market Size by Country (2020-2025) & (M USD)

Table 35. Middle East and Africa AI Defect Detection Market Size by Region (2020-2025) & (M USD)

Table 36. MobiDev Basic Information

Table 37. MobiDev AI Defect Detection Product Overview

Table 38. MobiDev AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 39. MobiDev SWOT Analysis

Table 40. MobiDev Business Overview

Table 41. MobiDev Recent Developments

Table 42. Vanti Basic Information

Table 43. Vanti AI Defect Detection Product Overview

Table 44. Vanti AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 45. Vanti SWOT Analysis

Table 46. Vanti Business Overview

Table 47. Vanti Recent Developments

Table 48. Elisa IndustrIQ Basic Information

Table 49. Elisa IndustrIQ AI Defect Detection Product Overview

Table 50. Elisa IndustrIQ AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 51. Elisa IndustrIQ SWOT Analysis

Table 52. Elisa IndustrIQ Business Overview

Table 53. Elisa IndustrIQ Recent Developments

Table 54. Viso AI Basic Information

Table 55. Viso AI AI Defect Detection Product Overview

Table 56. Viso AI AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 57. Viso AI Business Overview

Table 58. Viso AI Recent Developments

Table 59. Mitutoyo Basic Information

Table 60. Mitutoyo AI Defect Detection Product Overview

Table 61. Mitutoyo AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 62. Mitutoyo Business Overview

Table 63. Mitutoyo Recent Developments

- Table 64. DAC.digital Basic Information
- Table 65. DAC.digital AI Defect Detection Product Overview
- Table 66. DAC.digital AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 67. DAC.digital Business Overview
- Table 68. DAC.digital Recent Developments
- Table 69. Averroes AI Basic Information
- Table 70. Averroes AI AI Defect Detection Product Overview
- Table 71. Averroes AI AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 72. Averroes AI Business Overview
- Table 73. Averroes AI Recent Developments
- Table 74. Musashi AI Basic Information
- Table 75. Musashi AI AI Defect Detection Product Overview
- Table 76. Musashi AI AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 77. Musashi AI Business Overview
- Table 78. Musashi AI Recent Developments
- Table 79. Neurala Basic Information
- Table 80. Neurala AI Defect Detection Product Overview
- Table 81. Neurala AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 82. Neurala Business Overview
- Table 83. Neurala Recent Developments
- Table 84. Optelos Basic Information
- Table 85. Optelos AI Defect Detection Product Overview
- Table 86. Optelos AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 87. Optelos Business Overview
- Table 88. Optelos Recent Developments
- Table 89. Energy Robotics Basic Information
- Table 90. Energy Robotics AI Defect Detection Product Overview
- Table 91. Energy Robotics AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)
- Table 92. Energy Robotics Business Overview
- Table 93. Energy Robotics Recent Developments
- Table 94. GE Vernova Basic Information
- Table 95. GE Vernova AI Defect Detection Product Overview
- Table 96. GE Vernova AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 97. GE Vernova Business Overview

Table 98. GE Vernova Recent Developments

Table 99. SwitchOn Basic Information

Table 100. SwitchOn AI Defect Detection Product Overview

Table 101. SwitchOn AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 102. SwitchOn Business Overview

Table 103. SwitchOn Recent Developments

Table 104. Oxipital AI Basic Information

Table 105. Oxipital AI AI Defect Detection Product Overview

Table 106. Oxipital AI AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 107. Oxipital AI Business Overview

Table 108. Oxipital AI Recent Developments

Table 109. Loopr AI Basic Information

Table 110. Loopr AI AI Defect Detection Product Overview

Table 111. Loopr AI AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 112. Loopr AI Business Overview

Table 113. Loopr AI Recent Developments

Table 114. Kitov.ai Basic Information

Table 115. Kitov.ai AI Defect Detection Product Overview

Table 116. Kitov.ai AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 117. Kitov.ai Business Overview

Table 118. Kitov.ai Recent Developments

Table 119. 3HLE Basic Information

Table 120. 3HLE AI Defect Detection Product Overview

Table 121. 3HLE AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 122. 3HLE Business Overview

Table 123. 3HLE Recent Developments

Table 124. IBM Maximo Basic Information

Table 125. IBM Maximo AI Defect Detection Product Overview

Table 126. IBM Maximo AI Defect Detection Revenue (M USD) and Gross Margin

(2020-2025)

Table 127. IBM Maximo Business Overview

Table 128. IBM Maximo Recent Developments

Table 129. ROO.AI Basic Information

Table 130. ROO.AI AI Defect Detection Product Overview

Table 131. ROO.AI AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 132. ROO.AI Business Overview

Table 133. ROO.AI Recent Developments

Table 134. Paraspot AI Basic Information

Table 135. Paraspot AI AI Defect Detection Product Overview

Table 136. Paraspot AI AI Defect Detection Revenue (M USD) and Gross Margin (2020-2025)

Table 137. Paraspot AI Business Overview

Table 138. Paraspot AI Recent Developments

Table 139. Global AI Defect Detection Market Size Forecast by Region (2026-2035) & (M USD)

Table 140. North America AI Defect Detection Market Size Forecast by Country (2026-2035) & (M USD)

Table 141. Europe AI Defect Detection Market Size Forecast by Country (2026-2035) & (M USD)

Table 142. Asia Pacific AI Defect Detection Market Size Forecast by Region (2026-2035) & (M USD)

Table 143. South America AI Defect Detection Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Middle East and Africa AI Defect Detection Market Size Forecast by Country (2026-2035) & (M USD)

Table 145. Global AI Defect Detection Market Size Forecast by Type (2026-2035) & (M USD)

Table 146. Global AI Defect Detection Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Industry Chain of AI Defect Detection
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global AI Defect Detection Market Size (M USD), 2025-2035
- Figure 5. Global AI Defect Detection Market Size (M USD) (2020-2035)
- Figure 6. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 8. Evaluation Matrix of Regional Market Development Potential
- Figure 9. AI Defect Detection Market Size by Country (M USD)
- Figure 10. Company Assessment Quadrant
- Figure 11. Global AI Defect Detection Product Life Cycle
- Figure 12. Global AI Defect Detection Revenue Share by Company in 2025
- Figure 13. AI Defect Detection Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 14. The Global 5 and 10 Largest Players: Market Share by AI Defect Detection Revenue in 2025
- Figure 15. Value Chain Map of AI Defect Detection
- Figure 16. Global AI Defect Detection Market PEST Analysis
- Figure 17. Global AI Defect Detection Market Porter's Five Forces Analysis
- Figure 18. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 19. Global AI Defect Detection Market Share by Type
- Figure 20. Market Share of AI Defect Detection by Type (2020-2025)
- Figure 21. Global AI Defect Detection Market Size Growth Rate by Type (2021-2025)
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global AI Defect Detection Market Share by Application
- Figure 24. Global AI Defect Detection Market Share by Application (2020-2025)
- Figure 25. Global AI Defect Detection Market Share by Application in 2024
- Figure 26. Global AI Defect Detection Market Size Growth Rate by Application (2021-2025)
- Figure 27. Global AI Defect Detection Market Size Market Share by Region (2020-2025)
- Figure 28. North America AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 29. North America AI Defect Detection Market Size Market Share by Country in 2024
- Figure 30. U.S. AI Defect Detection Market Size and Growth Rate (2020-2025) & (M

USD)

Figure 31. Canada AI Defect Detection Market Size (M USD) and Growth Rate (2020-2025)

Figure 32. Mexico AI Defect Detection Market Size (M USD) and Growth Rate (2020-2025)

Figure 33. Europe AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 34. Europe AI Defect Detection Market Share by Country in 2024

Figure 35. Germany AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 36. France AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 37. U.K. AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 38. Italy AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 39. Spain AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 40. Asia Pacific AI Defect Detection Market Size and Growth Rate (M USD)

Figure 41. Asia Pacific AI Defect Detection Market Size Market Share by Region in 2024

Figure 42. China AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 43. Japan AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. South Korea AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. India AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 46. Southeast Asia AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. South America AI Defect Detection Market Size and Growth Rate (M USD)

Figure 48. South America AI Defect Detection Market Size Market Share by Country in 2024

Figure 49. Brazil AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 50. Argentina AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 51. Columbia AI Defect Detection Market Size and Growth Rate (2020-2025) &

(M USD)

Figure 52. Middle East and Africa AI Defect Detection Market Size and Growth Rate (M USD)

Figure 53. Middle East and Africa AI Defect Detection Market Size Market Share by Region in 2024

Figure 54. Saudi Arabia AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 55. UAE AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 56. Egypt AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. Nigeria AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 58. South Africa AI Defect Detection Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. Global AI Defect Detection Market Size Forecast by Value (2020-2035) & (M USD)

Figure 60. Global AI Defect Detection Market Share Forecast by Type (2026-2035)

Figure 61. Global AI Defect Detection Market Share Forecast by Application (2026-2035)

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