

# Global X-Ray Defect Inspection for Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/X3C5A1980928EN.html>

Date: August 2025

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: X3C5A1980928EN

## Abstracts

According to our (Global Info Research) latest study, the global X-Ray Defect Inspection for Semiconductor market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

X-ray inspection is a non-destructive technique that provides detailed information about the internal structure of a component without taking it apart. X-rays penetrate most components easily but are attenuated by the density of the materials. This results in shadow on the detector clearly showing the outlines of all internal features of the sample. The x-ray source type and detector determine the ultimate resolution of the image.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They

drive the growing demand for discrete power devices.

This report is a detailed and comprehensive analysis for global X-Ray Defect Inspection for Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, 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 X-Ray Defect Inspection for Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-Ray Defect Inspection for Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-Ray Defect Inspection for Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global X-Ray Defect Inspection for Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

#### 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 X-Ray Defect Inspection for Semiconductor
- 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 X-Ray Defect Inspection for Semiconductor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bruker, Nordson, Nikon, Rigaku, Viscom, KLA, COGNEX, Camtek, Onto Innovation, Unicomp Technology, etc.

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

## Market Segmentation

X-Ray Defect Inspection for Semiconductor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

X-ray Diffraction Imaging (XRDI)

Broadband Plasma Patterned

e-Beam Patterned

Others

### Market segment by Application

Impurity Analysis

Solder Joint inspection

Others

### Major players covered

Bruker

Nordson

Nikon

Rigaku

Viscom

KLA

COGNEX

Camtek

Onto Innovation

Unicomp Technology

SEC Co.,Ltd

YXLON

North Star Imaging

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe X-Ray Defect Inspection for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of X-Ray Defect Inspection for Semiconductor, with price, sales quantity, revenue, and global market share of X-Ray Defect Inspection for Semiconductor from 2020 to 2025.

Chapter 3, the X-Ray Defect Inspection for Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the X-Ray Defect Inspection for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and X-Ray Defect Inspection for Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of X-Ray Defect Inspection for Semiconductor.

Chapter 14 and 15, to describe X-Ray Defect Inspection for Semiconductor sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global X-Ray Defect Inspection for Semiconductor Consumption Value by Type: 2020 Versus 2024 Versus 2031
  - 1.3.2 X-ray Diffraction Imaging (XRDl)
  - 1.3.3 Broadband Plasma Patterned
  - 1.3.4 e-Beam Patterned
  - 1.3.5 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application: 2020 Versus 2024 Versus 2031
  - 1.4.2 Impurity Analysis
  - 1.4.3 Solder Joint inspection
  - 1.4.4 Others
- 1.5 Global X-Ray Defect Inspection for Semiconductor Market Size & Forecast
  - 1.5.1 Global X-Ray Defect Inspection for Semiconductor Consumption Value (2020 & 2024 & 2031)
  - 1.5.2 Global X-Ray Defect Inspection for Semiconductor Sales Quantity (2020-2031)
  - 1.5.3 Global X-Ray Defect Inspection for Semiconductor Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

- 2.1 Bruker
  - 2.1.1 Bruker Details
  - 2.1.2 Bruker Major Business
  - 2.1.3 Bruker X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.1.4 Bruker X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.1.5 Bruker Recent Developments/Updates
- 2.2 Nordson
  - 2.2.1 Nordson Details
  - 2.2.2 Nordson Major Business
  - 2.2.3 Nordson X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.2.4 Nordson X-Ray Defect Inspection for Semiconductor Sales Quantity, Average

## Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.2.5 Nordson Recent Developments/Updates

## 2.3 Nikon

### 2.3.1 Nikon Details

### 2.3.2 Nikon Major Business

### 2.3.3 Nikon X-Ray Defect Inspection for Semiconductor Product and Services

### 2.3.4 Nikon X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.3.5 Nikon Recent Developments/Updates

## 2.4 Rigaku

### 2.4.1 Rigaku Details

### 2.4.2 Rigaku Major Business

### 2.4.3 Rigaku X-Ray Defect Inspection for Semiconductor Product and Services

### 2.4.4 Rigaku X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.4.5 Rigaku Recent Developments/Updates

## 2.5 Viscom

### 2.5.1 Viscom Details

### 2.5.2 Viscom Major Business

### 2.5.3 Viscom X-Ray Defect Inspection for Semiconductor Product and Services

### 2.5.4 Viscom X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.5.5 Viscom Recent Developments/Updates

## 2.6 KLA

### 2.6.1 KLA Details

### 2.6.2 KLA Major Business

### 2.6.3 KLA X-Ray Defect Inspection for Semiconductor Product and Services

### 2.6.4 KLA X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.6.5 KLA Recent Developments/Updates

## 2.7 COGNEX

### 2.7.1 COGNEX Details

### 2.7.2 COGNEX Major Business

### 2.7.3 COGNEX X-Ray Defect Inspection for Semiconductor Product and Services

### 2.7.4 COGNEX X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.7.5 COGNEX Recent Developments/Updates

## 2.8 Camtek

### 2.8.1 Camtek Details

- 2.8.2 Camtek Major Business
- 2.8.3 Camtek X-Ray Defect Inspection for Semiconductor Product and Services
- 2.8.4 Camtek X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Camtek Recent Developments/Updates
- 2.9 Onto Innovation
  - 2.9.1 Onto Innovation Details
  - 2.9.2 Onto Innovation Major Business
  - 2.9.3 Onto Innovation X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.9.4 Onto Innovation X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.9.5 Onto Innovation Recent Developments/Updates
- 2.10 Unicomp Technology
  - 2.10.1 Unicomp Technology Details
  - 2.10.2 Unicomp Technology Major Business
  - 2.10.3 Unicomp Technology X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.10.4 Unicomp Technology X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.10.5 Unicomp Technology Recent Developments/Updates
- 2.11 SEC Co.,Ltd
  - 2.11.1 SEC Co.,Ltd Details
  - 2.11.2 SEC Co.,Ltd Major Business
  - 2.11.3 SEC Co.,Ltd X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.11.4 SEC Co.,Ltd X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.11.5 SEC Co.,Ltd Recent Developments/Updates
- 2.12 YXLON
  - 2.12.1 YXLON Details
  - 2.12.2 YXLON Major Business
  - 2.12.3 YXLON X-Ray Defect Inspection for Semiconductor Product and Services
  - 2.12.4 YXLON X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.12.5 YXLON Recent Developments/Updates
- 2.13 North Star Imaging
  - 2.13.1 North Star Imaging Details
  - 2.13.2 North Star Imaging Major Business
  - 2.13.3 North Star Imaging X-Ray Defect Inspection for Semiconductor Product and

## Services

2.13.4 North Star Imaging X-Ray Defect Inspection for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 North Star Imaging Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: X-RAY DEFECT INSPECTION FOR SEMICONDUCTOR BY MANUFACTURER**

3.1 Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Manufacturer (2020-2025)

3.2 Global X-Ray Defect Inspection for Semiconductor Revenue by Manufacturer (2020-2025)

3.3 Global X-Ray Defect Inspection for Semiconductor Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of X-Ray Defect Inspection for Semiconductor by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 X-Ray Defect Inspection for Semiconductor Manufacturer Market Share in 2024

3.4.3 Top 6 X-Ray Defect Inspection for Semiconductor Manufacturer Market Share in 2024

3.5 X-Ray Defect Inspection for Semiconductor Market: Overall Company Footprint Analysis

3.5.1 X-Ray Defect Inspection for Semiconductor Market: Region Footprint

3.5.2 X-Ray Defect Inspection for Semiconductor Market: Company Product Type Footprint

3.5.3 X-Ray Defect Inspection for Semiconductor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global X-Ray Defect Inspection for Semiconductor Market Size by Region

4.1.1 Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2020-2031)

4.1.2 Global X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2020-2031)

4.1.3 Global X-Ray Defect Inspection for Semiconductor Average Price by Region

(2020-2031)

4.2 North America X-Ray Defect Inspection for Semiconductor Consumption Value

(2020-2031)

4.3 Europe X-Ray Defect Inspection for Semiconductor Consumption Value

(2020-2031)

4.4 Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value

(2020-2031)

4.5 South America X-Ray Defect Inspection for Semiconductor Consumption Value

(2020-2031)

4.6 Middle East & Africa X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Type

(2020-2031)

5.2 Global X-Ray Defect Inspection for Semiconductor Consumption Value by Type

(2020-2031)

5.3 Global X-Ray Defect Inspection for Semiconductor Average Price by Type

(2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Application

(2020-2031)

6.2 Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application (2020-2031)

6.3 Global X-Ray Defect Inspection for Semiconductor Average Price by Application

(2020-2031)

## **7 NORTH AMERICA**

7.1 North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2031)

7.2 North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2031)

7.3 North America X-Ray Defect Inspection for Semiconductor Market Size by Country

7.3.1 North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2031)

7.3.2 North America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2031)

8.2 Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2031)

8.3 Europe X-Ray Defect Inspection for Semiconductor Market Size by Country

8.3.1 Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2031)

8.3.2 Europe X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific X-Ray Defect Inspection for Semiconductor Market Size by Region

9.3.1 Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

### 9.3.8 Australia Market Size and Forecast (2020-2031)

## 10 SOUTH AMERICA

10.1 South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2031)

10.2 South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2031)

10.3 South America X-Ray Defect Inspection for Semiconductor Market Size by Country

10.3.1 South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2031)

10.3.2 South America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

## 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa X-Ray Defect Inspection for Semiconductor Market Size by Country

11.3.1 Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

## 12 MARKET DYNAMICS

12.1 X-Ray Defect Inspection for Semiconductor Market Drivers

12.2 X-Ray Defect Inspection for Semiconductor Market Restraints

12.3 X-Ray Defect Inspection for Semiconductor Trends Analysis

12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of X-Ray Defect Inspection for Semiconductor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of X-Ray Defect Inspection for Semiconductor
- 13.3 X-Ray Defect Inspection for Semiconductor Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 X-Ray Defect Inspection for Semiconductor Typical Distributors
- 14.3 X-Ray Defect Inspection for Semiconductor Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Bruker Basic Information, Manufacturing Base and Competitors

Table 4. Bruker Major Business

Table 5. Bruker X-Ray Defect Inspection for Semiconductor Product and Services

Table 6. Bruker X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Bruker Recent Developments/Updates

Table 8. Nordson Basic Information, Manufacturing Base and Competitors

Table 9. Nordson Major Business

Table 10. Nordson X-Ray Defect Inspection for Semiconductor Product and Services

Table 11. Nordson X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Nordson Recent Developments/Updates

Table 13. Nikon Basic Information, Manufacturing Base and Competitors

Table 14. Nikon Major Business

Table 15. Nikon X-Ray Defect Inspection for Semiconductor Product and Services

Table 16. Nikon X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Nikon Recent Developments/Updates

Table 18. Rigaku Basic Information, Manufacturing Base and Competitors

Table 19. Rigaku Major Business

Table 20. Rigaku X-Ray Defect Inspection for Semiconductor Product and Services

Table 21. Rigaku X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Rigaku Recent Developments/Updates

Table 23. Viscom Basic Information, Manufacturing Base and Competitors

Table 24. Viscom Major Business

Table 25. Viscom X-Ray Defect Inspection for Semiconductor Product and Services

Table 26. Viscom X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Viscom Recent Developments/Updates

Table 28. KLA Basic Information, Manufacturing Base and Competitors

Table 29. KLA Major Business

Table 30. KLA X-Ray Defect Inspection for Semiconductor Product and Services

Table 31. KLA X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. KLA Recent Developments/Updates

Table 33. COGNEX Basic Information, Manufacturing Base and Competitors

Table 34. COGNEX Major Business

Table 35. COGNEX X-Ray Defect Inspection for Semiconductor Product and Services

Table 36. COGNEX X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. COGNEX Recent Developments/Updates

Table 38. Camtek Basic Information, Manufacturing Base and Competitors

Table 39. Camtek Major Business

Table 40. Camtek X-Ray Defect Inspection for Semiconductor Product and Services

Table 41. Camtek X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Camtek Recent Developments/Updates

Table 43. Onto Innovation Basic Information, Manufacturing Base and Competitors

Table 44. Onto Innovation Major Business

Table 45. Onto Innovation X-Ray Defect Inspection for Semiconductor Product and Services

Table 46. Onto Innovation X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Onto Innovation Recent Developments/Updates

Table 48. Unicomp Technology Basic Information, Manufacturing Base and Competitors

Table 49. Unicomp Technology Major Business

Table 50. Unicomp Technology X-Ray Defect Inspection for Semiconductor Product and Services

Table 51. Unicomp Technology X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2020-2025)

Table 52. Unicom Technology Recent Developments/Updates

Table 53. SEC Co.,Ltd Basic Information, Manufacturing Base and Competitors

Table 54. SEC Co.,Ltd Major Business

Table 55. SEC Co.,Ltd X-Ray Defect Inspection for Semiconductor Product and Services

Table 56. SEC Co.,Ltd X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. SEC Co.,Ltd Recent Developments/Updates

Table 58. YXLON Basic Information, Manufacturing Base and Competitors

Table 59. YXLON Major Business

Table 60. YXLON X-Ray Defect Inspection for Semiconductor Product and Services

Table 61. YXLON X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. YXLON Recent Developments/Updates

Table 63. North Star Imaging Basic Information, Manufacturing Base and Competitors

Table 64. North Star Imaging Major Business

Table 65. North Star Imaging X-Ray Defect Inspection for Semiconductor Product and Services

Table 66. North Star Imaging X-Ray Defect Inspection for Semiconductor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. North Star Imaging Recent Developments/Updates

Table 68. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 69. Global X-Ray Defect Inspection for Semiconductor Revenue by Manufacturer (2020-2025) & (USD Million)

Table 70. Global X-Ray Defect Inspection for Semiconductor Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 71. Market Position of Manufacturers in X-Ray Defect Inspection for Semiconductor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 72. Head Office and X-Ray Defect Inspection for Semiconductor Production Site of Key Manufacturer

Table 73. X-Ray Defect Inspection for Semiconductor Market: Company Product Type Footprint

Table 74. X-Ray Defect Inspection for Semiconductor Market: Company Product Application Footprint

Table 75. X-Ray Defect Inspection for Semiconductor New Market Entrants and Barriers to Market Entry

Table 76. X-Ray Defect Inspection for Semiconductor Mergers, Acquisition, Agreements, and Collaborations

Table 77. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 78. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2020-2025) & (K Units)

Table 79. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2026-2031) & (K Units)

Table 80. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2020-2025) & (USD Million)

Table 81. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2026-2031) & (USD Million)

Table 82. Global X-Ray Defect Inspection for Semiconductor Average Price by Region (2020-2025) & (US\$/Unit)

Table 83. Global X-Ray Defect Inspection for Semiconductor Average Price by Region (2026-2031) & (US\$/Unit)

Table 84. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 85. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 86. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Type (2020-2025) & (USD Million)

Table 87. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Type (2026-2031) & (USD Million)

Table 88. Global X-Ray Defect Inspection for Semiconductor Average Price by Type (2020-2025) & (US\$/Unit)

Table 89. Global X-Ray Defect Inspection for Semiconductor Average Price by Type (2026-2031) & (US\$/Unit)

Table 90. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 91. Global X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 92. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application (2020-2025) & (USD Million)

Table 93. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application (2026-2031) & (USD Million)

Table 94. Global X-Ray Defect Inspection for Semiconductor Average Price by

Application (2020-2025) & (US\$/Unit)

Table 95. Global X-Ray Defect Inspection for Semiconductor Average Price by Application (2026-2031) & (US\$/Unit)

Table 96. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 97. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 98. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 99. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 100. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2025) & (K Units)

Table 101. North America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2026-2031) & (K Units)

Table 102. North America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 103. North America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 104. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 105. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 106. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 107. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 108. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2025) & (K Units)

Table 109. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2026-2031) & (K Units)

Table 110. Europe X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 111. Europe X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 112. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 113. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 114. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 115. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 116. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2020-2025) & (K Units)

Table 117. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity by Region (2026-2031) & (K Units)

Table 118. Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2020-2025) & (USD Million)

Table 119. Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value by Region (2026-2031) & (USD Million)

Table 120. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 121. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 122. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 123. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 124. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2025) & (K Units)

Table 125. South America X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2026-2031) & (K Units)

Table 126. South America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 127. South America X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 128. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2020-2025) & (K Units)

Table 129. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Type (2026-2031) & (K Units)

Table 130. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2020-2025) & (K Units)

Table 131. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Application (2026-2031) & (K Units)

Table 132. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales Quantity by Country (2020-2025) & (K Units)

Table 133. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales

Quantity by Country (2026-2031) & (K Units)

Table 134. Middle East & Africa X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2020-2025) & (USD Million)

Table 135. Middle East & Africa X-Ray Defect Inspection for Semiconductor Consumption Value by Country (2026-2031) & (USD Million)

Table 136. X-Ray Defect Inspection for Semiconductor Raw Material

Table 137. Key Manufacturers of X-Ray Defect Inspection for Semiconductor Raw Materials

Table 138. X-Ray Defect Inspection for Semiconductor Typical Distributors

Table 139. X-Ray Defect Inspection for Semiconductor Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. X-Ray Defect Inspection for Semiconductor Picture

Figure 2. Global X-Ray Defect Inspection for Semiconductor Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global X-Ray Defect Inspection for Semiconductor Revenue Market Share by Type in 2024

Figure 4. X-ray Diffraction Imaging (XRDI) Examples

Figure 5. Broadband Plasma Patterned Examples

Figure 6. e-Beam Patterned Examples

Figure 7. Others Examples

Figure 8. Global X-Ray Defect Inspection for Semiconductor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 9. Global X-Ray Defect Inspection for Semiconductor Revenue Market Share by Application in 2024

Figure 10. Impurity Analysis Examples

Figure 11. Solder Joint inspection Examples

Figure 12. Others Examples

Figure 13. Global X-Ray Defect Inspection for Semiconductor Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global X-Ray Defect Inspection for Semiconductor Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global X-Ray Defect Inspection for Semiconductor Sales Quantity (2020-2031) & (K Units)

Figure 16. Global X-Ray Defect Inspection for Semiconductor Price (2020-2031) & (US\$/Unit)

Figure 17. Global X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global X-Ray Defect Inspection for Semiconductor Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of X-Ray Defect Inspection for Semiconductor by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 X-Ray Defect Inspection for Semiconductor Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 X-Ray Defect Inspection for Semiconductor Manufacturer (Revenue) Market Share in 2024

Figure 22. Global X-Ray Defect Inspection for Semiconductor Sales Quantity Market

Share by Region (2020-2031)

Figure 23. Global X-Ray Defect Inspection for Semiconductor Consumption Value Market Share by Region (2020-2031)

Figure 24. North America X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 27. South America X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 29. Global X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global X-Ray Defect Inspection for Semiconductor Consumption Value Market Share by Type (2020-2031)

Figure 31. Global X-Ray Defect Inspection for Semiconductor Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global X-Ray Defect Inspection for Semiconductor Revenue Market Share by Application (2020-2031)

Figure 34. Global X-Ray Defect Inspection for Semiconductor Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America X-Ray Defect Inspection for Semiconductor Consumption Value Market Share by Country (2020-2031)

Figure 39. United States X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe X-Ray Defect Inspection for Semiconductor Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 47. France X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific X-Ray Defect Inspection for Semiconductor Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific X-Ray Defect Inspection for Semiconductor Consumption Value Market Share by Region (2020-2031)

Figure 55. China X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 58. India X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia X-Ray Defect Inspection for Semiconductor Consumption Value (2020-2031) & (USD Million)

Figure 61. South America X-Ray Defect Inspection for Semiconductor Sales Quantity

Market Share by Type (2020-2031)

Figure 62. South America X-Ray Defect Inspection for Semiconductor Sales Quantity

Market Share by Application (2020-2031)

Figure 63. South America X-Ray Defect Inspection for Semiconductor Sales Quantity

Market Share by Country (2020-2031)

Figure 64. South America X-Ray Defect Inspection for Semiconductor Consumption

Value Market Share by Country (2020-2031)

Figure 65. Brazil X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 66. Argentina X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 67. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales  
Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales  
Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa X-Ray Defect Inspection for Semiconductor Sales  
Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa X-Ray Defect Inspection for Semiconductor  
Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 72. Egypt X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 73. Saudi Arabia X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 74. South Africa X-Ray Defect Inspection for Semiconductor Consumption Value  
(2020-2031) & (USD Million)

Figure 75. X-Ray Defect Inspection for Semiconductor Market Drivers

Figure 76. X-Ray Defect Inspection for Semiconductor Market Restraints

Figure 77. X-Ray Defect Inspection for Semiconductor Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of X-Ray Defect Inspection for  
Semiconductor in 2024

Figure 80. Manufacturing Process Analysis of X-Ray Defect Inspection for  
Semiconductor

Figure 81. X-Ray Defect Inspection for Semiconductor Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

## I would like to order

Product name: Global X-Ray Defect Inspection for Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

Product link: <https://marketpublishers.com/r/X3C5A1980928EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/X3C5A1980928EN.html>