

# Global FPC Appearance Inspection Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global FPC Appearance Inspection Equipment market size was valued at US\$ 147 million in 2025 and is forecast to a readjusted size of US\$ 193 million by 2032 with a CAGR of 4.1% during review period.

In 2025, the production volume of FPC visual inspection equipment is projected to reach 11,402 units, with an average selling price of \$12,500 per unit. The global annual production capacity for FPC visual inspection equipment stands at approximately 20,000 units, with a gross margin of approximately 34.6%. FPC visual inspection equipment refers to specialized machinery utilized for the automated inspection of the surface and visual appearance of Flexible Printed Circuit Boards (FPCs). Employing technologies such as optics and machine vision, this equipment performs rapid, objective detection and classification of defects, coatings, and structural consistency on FPCs, thereby enhancing yield rates and reducing labor costs. Upstream raw materials for FPC visual inspection equipment include camera modules, image sensor chips, edge computing chips, and similar components. The midstream segment consists of the manufacturers of FPC visual inspection equipment, while the downstream market is primarily driven by industries such as consumer electronics, automotive electronics, and medical electronics.

The market for FPC visual inspection equipment is exhibiting a trend of steady growth; driven by the continuously rising demand for flexible printed circuit boards across sectors such as consumer electronics, automotive electronics, and medical devices, the demand for inspection equipment is increasing in tandem. The market landscape is characterized by a relatively fragmented competitive structure, comprising both

internationally renowned corporations and domestic manufacturers; nevertheless, leading enterprises have secured significant market shares by leveraging their technological advantages and extensive client networks. In terms of technology, inspection equipment is evolving toward higher precision and greater intelligence, integrating advanced capabilities—such as AI-driven visual recognition and 3D inspection—to address the increasingly complex structural designs and stringent quality standards of FPC products. Concurrently, as the trend of domestic substitution intensifies, domestic manufacturers are making strides in both technological R&D and cost control, thereby progressively enhancing their competitiveness within the market.

This report is a detailed and comprehensive analysis for global FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global FPC Appearance Inspection Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global FPC Appearance Inspection Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global FPC Appearance Inspection Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 FPC Appearance Inspection Equipment

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 FPC Appearance Inspection Equipment 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 DZ Group, KENSHO, Nidec, Utechzone, ZHENGYE TECHNOLOGY, RONG CHEER, DEEP SIGHT, Prevision, SmartMore, V5TEC, etc.

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

## Market Segmentation

FPC Appearance Inspection Equipment market is split by Type and by Application. For the period 2021-2032, 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

Optical Inspection

Machine Vision

X-Ray Inspection

### Market segment by Detection Function

Appearance Defect Detection

Dimensional Accuracy Inspection

## Positioning and Alignment Inspection

### Market segment by Equipment Type

Linear Array Scanner

Area Array Scanner

Integrated Inspection System

### Market segment by Detection Accuracy

5 ?m – 10 ?m

10 ?m – 20 ?m

Above 20 ?m

### Market segment by Application

Consumer Electronics

Automotive Electronics

Communications

Medical

Aerospace

Others

### Major players covered

DZ Group

KENSHO

Nidec

Utechzone

ZHENGYE TECHNOLOGY

RONG CHEER

DEEP SIGHT

Prevision

SmartMore

V5TEC

Kunshan Jiexiang Industrial Equipment

YanMade

Koh Young

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 FPC Appearance Inspection Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of FPC Appearance Inspection Equipment, with price, sales quantity, revenue, and global market share of FPC Appearance Inspection Equipment from 2021 to 2026.

Chapter 3, the FPC Appearance Inspection Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the FPC Appearance Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and FPC Appearance Inspection Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 FPC Appearance Inspection Equipment.

Chapter 14 and 15, to describe FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Optical Inspection

1.3.3 Machine Vision

1.3.4 X-Ray Inspection

1.4 Market Analysis by Detection Function

1.4.1 Overview: Global FPC Appearance Inspection Equipment Consumption Value by Detection Function: 2021 Versus 2025 Versus 2032

1.4.2 Appearance Defect Detection

1.4.3 Dimensional Accuracy Inspection

1.4.4 Positioning and Alignment Inspection

1.5 Market Analysis by Equipment Type

1.5.1 Overview: Global FPC Appearance Inspection Equipment Consumption Value by Equipment Type: 2021 Versus 2025 Versus 2032

1.5.2 Linear Array Scanner

1.5.3 Area Array Scanner

1.5.4 Integrated Inspection System

1.6 Market Analysis by Detection Accuracy

1.6.1 Overview: Global FPC Appearance Inspection Equipment Consumption Value by Detection Accuracy: 2021 Versus 2025 Versus 2032

1.6.2 5 ?m – 10 ?m

1.6.3 10 ?m – 20 ?m

1.6.4 Above 20 ?m

1.7 Market Analysis by Application

1.7.1 Overview: Global FPC Appearance Inspection Equipment Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Consumer Electronics

1.7.3 Automotive Electronics

1.7.4 Communications

1.7.5 Medical

1.7.6 Aerospace

1.7.7 Others

- 1.8 Global FPC Appearance Inspection Equipment Market Size & Forecast
  - 1.8.1 Global FPC Appearance Inspection Equipment Consumption Value (2021 & 2025 & 2032)
  - 1.8.2 Global FPC Appearance Inspection Equipment Sales Quantity (2021-2032)
  - 1.8.3 Global FPC Appearance Inspection Equipment Average Price (2021-2032)

## **2 MANUFACTURERS PROFILES**

### **2.1 DZ Group**

- 2.1.1 DZ Group Details
- 2.1.2 DZ Group Major Business
- 2.1.3 DZ Group FPC Appearance Inspection Equipment Product and Services
- 2.1.4 DZ Group FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 DZ Group Recent Developments/Updates

### **2.2 KENSHO**

- 2.2.1 KENSHO Details
- 2.2.2 KENSHO Major Business
- 2.2.3 KENSHO FPC Appearance Inspection Equipment Product and Services
- 2.2.4 KENSHO FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 KENSHO Recent Developments/Updates

### **2.3 Nidec**

- 2.3.1 Nidec Details
- 2.3.2 Nidec Major Business
- 2.3.3 Nidec FPC Appearance Inspection Equipment Product and Services
- 2.3.4 Nidec FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Nidec Recent Developments/Updates

### **2.4 Utechzone**

- 2.4.1 Utechzone Details
- 2.4.2 Utechzone Major Business
- 2.4.3 Utechzone FPC Appearance Inspection Equipment Product and Services
- 2.4.4 Utechzone FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 Utechzone Recent Developments/Updates

### **2.5 ZHENGYE TECHNOLOGY**

- 2.5.1 ZHENGYE TECHNOLOGY Details
- 2.5.2 ZHENGYE TECHNOLOGY Major Business

2.5.3 ZHENGYE TECHNOLOGY FPC Appearance Inspection Equipment Product and Services

2.5.4 ZHENGYE TECHNOLOGY FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 ZHENGYE TECHNOLOGY Recent Developments/Updates

2.6 RONG CHEER

2.6.1 RONG CHEER Details

2.6.2 RONG CHEER Major Business

2.6.3 RONG CHEER FPC Appearance Inspection Equipment Product and Services

2.6.4 RONG CHEER FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 RONG CHEER Recent Developments/Updates

2.7 DEEP SIGHT

2.7.1 DEEP SIGHT Details

2.7.2 DEEP SIGHT Major Business

2.7.3 DEEP SIGHT FPC Appearance Inspection Equipment Product and Services

2.7.4 DEEP SIGHT FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 DEEP SIGHT Recent Developments/Updates

2.8 Prevision

2.8.1 Prevision Details

2.8.2 Prevision Major Business

2.8.3 Prevision FPC Appearance Inspection Equipment Product and Services

2.8.4 Prevision FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Prevision Recent Developments/Updates

2.9 SmartMore

2.9.1 SmartMore Details

2.9.2 SmartMore Major Business

2.9.3 SmartMore FPC Appearance Inspection Equipment Product and Services

2.9.4 SmartMore FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 SmartMore Recent Developments/Updates

2.10 V5TEC

2.10.1 V5TEC Details

2.10.2 V5TEC Major Business

2.10.3 V5TEC FPC Appearance Inspection Equipment Product and Services

2.10.4 V5TEC FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.10.5 V5TEC Recent Developments/Updates
- 2.11 Kunshan Jiexiang Industrial Equipment
  - 2.11.1 Kunshan Jiexiang Industrial Equipment Details
  - 2.11.2 Kunshan Jiexiang Industrial Equipment Major Business
  - 2.11.3 Kunshan Jiexiang Industrial Equipment FPC Appearance Inspection Equipment Product and Services
  - 2.11.4 Kunshan Jiexiang Industrial Equipment FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 Kunshan Jiexiang Industrial Equipment Recent Developments/Updates
- 2.12 YanMade
  - 2.12.1 YanMade Details
  - 2.12.2 YanMade Major Business
  - 2.12.3 YanMade FPC Appearance Inspection Equipment Product and Services
  - 2.12.4 YanMade FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 YanMade Recent Developments/Updates
- 2.13 Koh Young
  - 2.13.1 Koh Young Details
  - 2.13.2 Koh Young Major Business
  - 2.13.3 Koh Young FPC Appearance Inspection Equipment Product and Services
  - 2.13.4 Koh Young FPC Appearance Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Koh Young Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: FPC APPEARANCE INSPECTION EQUIPMENT BY MANUFACTURER**

- 3.1 Global FPC Appearance Inspection Equipment Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global FPC Appearance Inspection Equipment Revenue by Manufacturer (2021-2026)
- 3.3 Global FPC Appearance Inspection Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of FPC Appearance Inspection Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 FPC Appearance Inspection Equipment Manufacturer Market Share in 2025
  - 3.4.3 Top 6 FPC Appearance Inspection Equipment Manufacturer Market Share in

2025

3.5 FPC Appearance Inspection Equipment Market: Overall Company Footprint Analysis

3.5.1 FPC Appearance Inspection Equipment Market: Region Footprint

3.5.2 FPC Appearance Inspection Equipment Market: Company Product Type Footprint

3.5.3 FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment Market Size by Region

4.1.1 Global FPC Appearance Inspection Equipment Sales Quantity by Region (2021-2032)

4.1.2 Global FPC Appearance Inspection Equipment Consumption Value by Region (2021-2032)

4.1.3 Global FPC Appearance Inspection Equipment Average Price by Region (2021-2032)

4.2 North America FPC Appearance Inspection Equipment Consumption Value (2021-2032)

4.3 Europe FPC Appearance Inspection Equipment Consumption Value (2021-2032)

4.4 Asia-Pacific FPC Appearance Inspection Equipment Consumption Value (2021-2032)

4.5 South America FPC Appearance Inspection Equipment Consumption Value (2021-2032)

4.6 Middle East & Africa FPC Appearance Inspection Equipment Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

5.2 Global FPC Appearance Inspection Equipment Consumption Value by Type (2021-2032)

5.3 Global FPC Appearance Inspection Equipment Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

6.2 Global FPC Appearance Inspection Equipment Consumption Value by Application (2021-2032)

6.3 Global FPC Appearance Inspection Equipment Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

7.2 North America FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

7.3 North America FPC Appearance Inspection Equipment Market Size by Country

7.3.1 North America FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2032)

7.3.2 North America FPC Appearance Inspection Equipment Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

8.2 Europe FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

8.3 Europe FPC Appearance Inspection Equipment Market Size by Country

8.3.1 Europe FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2032)

8.3.2 Europe FPC Appearance Inspection Equipment Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific FPC Appearance Inspection Equipment Market Size by Region

9.3.1 Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific FPC Appearance Inspection Equipment Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

10.2 South America FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

10.3 South America FPC Appearance Inspection Equipment Market Size by Country

10.3.1 South America FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2032)

10.3.2 South America FPC Appearance Inspection Equipment Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa FPC Appearance Inspection Equipment Market Size by

## Country

11.3.1 Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa FPC Appearance Inspection Equipment Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 FPC Appearance Inspection Equipment Market Drivers

12.2 FPC Appearance Inspection Equipment Market Restraints

12.3 FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment and Key Manufacturers

13.2 Manufacturing Costs Percentage of FPC Appearance Inspection Equipment

13.3 FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment Typical Distributors

14.3 FPC Appearance Inspection Equipment 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 FPC Appearance Inspection Equipment Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global FPC Appearance Inspection Equipment Consumption Value by Detection Function, (USD Million), 2021 & 2025 & 2032

Table 3. Global FPC Appearance Inspection Equipment Consumption Value by Equipment Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global FPC Appearance Inspection Equipment Consumption Value by Detection Accuracy, (USD Million), 2021 & 2025 & 2032

Table 5. Global FPC Appearance Inspection Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. DZ Group Basic Information, Manufacturing Base and Competitors

Table 7. DZ Group Major Business

Table 8. DZ Group FPC Appearance Inspection Equipment Product and Services

Table 9. DZ Group FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. DZ Group Recent Developments/Updates

Table 11. KENSHO Basic Information, Manufacturing Base and Competitors

Table 12. KENSHO Major Business

Table 13. KENSHO FPC Appearance Inspection Equipment Product and Services

Table 14. KENSHO FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. KENSHO Recent Developments/Updates

Table 16. Nidec Basic Information, Manufacturing Base and Competitors

Table 17. Nidec Major Business

Table 18. Nidec FPC Appearance Inspection Equipment Product and Services

Table 19. Nidec FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Nidec Recent Developments/Updates

Table 21. Utechzone Basic Information, Manufacturing Base and Competitors

Table 22. Utechzone Major Business

Table 23. Utechzone FPC Appearance Inspection Equipment Product and Services

Table 24. Utechzone FPC Appearance Inspection Equipment Sales Quantity (Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Utechzone Recent Developments/Updates

Table 26. ZHENGYE TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 27. ZHENGYE TECHNOLOGY Major Business

Table 28. ZHENGYE TECHNOLOGY FPC Appearance Inspection Equipment Product and Services

Table 29. ZHENGYE TECHNOLOGY FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. ZHENGYE TECHNOLOGY Recent Developments/Updates

Table 31. RONG CHEER Basic Information, Manufacturing Base and Competitors

Table 32. RONG CHEER Major Business

Table 33. RONG CHEER FPC Appearance Inspection Equipment Product and Services

Table 34. RONG CHEER FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. RONG CHEER Recent Developments/Updates

Table 36. DEEP SIGHT Basic Information, Manufacturing Base and Competitors

Table 37. DEEP SIGHT Major Business

Table 38. DEEP SIGHT FPC Appearance Inspection Equipment Product and Services

Table 39. DEEP SIGHT FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. DEEP SIGHT Recent Developments/Updates

Table 41. Prevision Basic Information, Manufacturing Base and Competitors

Table 42. Prevision Major Business

Table 43. Prevision FPC Appearance Inspection Equipment Product and Services

Table 44. Prevision FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Prevision Recent Developments/Updates

Table 46. SmartMore Basic Information, Manufacturing Base and Competitors

Table 47. SmartMore Major Business

Table 48. SmartMore FPC Appearance Inspection Equipment Product and Services

Table 49. SmartMore FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 50. SmartMore Recent Developments/Updates
- Table 51. V5TEC Basic Information, Manufacturing Base and Competitors
- Table 52. V5TEC Major Business
- Table 53. V5TEC FPC Appearance Inspection Equipment Product and Services
- Table 54. V5TEC FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 55. V5TEC Recent Developments/Updates
- Table 56. Kunshan Jiexiang Industrial Equipment Basic Information, Manufacturing Base and Competitors
- Table 57. Kunshan Jiexiang Industrial Equipment Major Business
- Table 58. Kunshan Jiexiang Industrial Equipment FPC Appearance Inspection Equipment Product and Services
- Table 59. Kunshan Jiexiang Industrial Equipment FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 60. Kunshan Jiexiang Industrial Equipment Recent Developments/Updates
- Table 61. YanMade Basic Information, Manufacturing Base and Competitors
- Table 62. YanMade Major Business
- Table 63. YanMade FPC Appearance Inspection Equipment Product and Services
- Table 64. YanMade FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. YanMade Recent Developments/Updates
- Table 66. Koh Young Basic Information, Manufacturing Base and Competitors
- Table 67. Koh Young Major Business
- Table 68. Koh Young FPC Appearance Inspection Equipment Product and Services
- Table 69. Koh Young FPC Appearance Inspection Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 70. Koh Young Recent Developments/Updates
- Table 71. Global FPC Appearance Inspection Equipment Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 72. Global FPC Appearance Inspection Equipment Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 73. Global FPC Appearance Inspection Equipment Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 74. Market Position of Manufacturers in FPC Appearance Inspection Equipment, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 75. Head Office and FPC Appearance Inspection Equipment Production Site of Key Manufacturer

Table 76. FPC Appearance Inspection Equipment Market: Company Product Type Footprint

Table 77. FPC Appearance Inspection Equipment Market: Company Product Application Footprint

Table 78. FPC Appearance Inspection Equipment New Market Entrants and Barriers to Market Entry

Table 79. FPC Appearance Inspection Equipment Mergers, Acquisition, Agreements, and Collaborations

Table 80. Global FPC Appearance Inspection Equipment Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 81. Global FPC Appearance Inspection Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 82. Global FPC Appearance Inspection Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 83. Global FPC Appearance Inspection Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 84. Global FPC Appearance Inspection Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 85. Global FPC Appearance Inspection Equipment Average Price by Region (2021-2026) & (US\$/Unit)

Table 86. Global FPC Appearance Inspection Equipment Average Price by Region (2027-2032) & (US\$/Unit)

Table 87. Global FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 88. Global FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 89. Global FPC Appearance Inspection Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 90. Global FPC Appearance Inspection Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 91. Global FPC Appearance Inspection Equipment Average Price by Type (2021-2026) & (US\$/Unit)

Table 92. Global FPC Appearance Inspection Equipment Average Price by Type (2027-2032) & (US\$/Unit)

Table 93. Global FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 94. Global FPC Appearance Inspection Equipment Sales Quantity by Application

(2027-2032) & (Units)

Table 95. Global FPC Appearance Inspection Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 96. Global FPC Appearance Inspection Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 97. Global FPC Appearance Inspection Equipment Average Price by Application (2021-2026) & (US\$/Unit)

Table 98. Global FPC Appearance Inspection Equipment Average Price by Application (2027-2032) & (US\$/Unit)

Table 99. North America FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 100. North America FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 101. North America FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 102. North America FPC Appearance Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 103. North America FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 104. North America FPC Appearance Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 105. North America FPC Appearance Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 106. North America FPC Appearance Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 107. Europe FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 108. Europe FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 109. Europe FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 110. Europe FPC Appearance Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 111. Europe FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 112. Europe FPC Appearance Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 113. Europe FPC Appearance Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 114. Europe FPC Appearance Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 116. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 117. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 118. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 119. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 120. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 121. Asia-Pacific FPC Appearance Inspection Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 122. Asia-Pacific FPC Appearance Inspection Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 123. South America FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 124. South America FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 125. South America FPC Appearance Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 126. South America FPC Appearance Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 127. South America FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 128. South America FPC Appearance Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 129. South America FPC Appearance Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 130. South America FPC Appearance Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 132. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 133. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity

by Application (2021-2026) & (Units)

Table 134. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 135. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 136. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 137. Middle East & Africa FPC Appearance Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Middle East & Africa FPC Appearance Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 139. FPC Appearance Inspection Equipment Raw Material

Table 140. Key Manufacturers of FPC Appearance Inspection Equipment Raw Materials

Table 141. FPC Appearance Inspection Equipment Typical Distributors

Table 142. FPC Appearance Inspection Equipment Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. FPC Appearance Inspection Equipment Picture
- Figure 2. Global FPC Appearance Inspection Equipment Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global FPC Appearance Inspection Equipment Revenue Market Share by Type in 2025
- Figure 4. Optical Inspection Examples
- Figure 5. Machine Vision Examples
- Figure 6. X-Ray Inspection Examples
- Figure 7. Global FPC Appearance Inspection Equipment Revenue by Detection Function, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global FPC Appearance Inspection Equipment Revenue Market Share by Detection Function in 2025
- Figure 9. Appearance Defect Detection Examples
- Figure 10. Dimensional Accuracy Inspection Examples
- Figure 11. Positioning and Alignment Inspection Examples
- Figure 12. Global FPC Appearance Inspection Equipment Revenue by Equipment Type, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global FPC Appearance Inspection Equipment Revenue Market Share by Equipment Type in 2025
- Figure 14. Linear Array Scanner Examples
- Figure 15. Area Array Scanner Examples
- Figure 16. Integrated Inspection System Examples
- Figure 17. Global FPC Appearance Inspection Equipment Revenue by Detection Accuracy, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global FPC Appearance Inspection Equipment Revenue Market Share by Detection Accuracy in 2025
- Figure 19. 5 ?m – 10 ?m Examples
- Figure 20. 10 ?m – 20 ?m Examples
- Figure 21. Above 20 ?m Examples
- Figure 22. Global FPC Appearance Inspection Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 23. Global FPC Appearance Inspection Equipment Revenue Market Share by Application in 2025
- Figure 24. Consumer Electronics Examples
- Figure 25. Automotive Electronics Examples

Figure 26. Communications Examples

Figure 27. Medical Examples

Figure 28. Aerospace Examples

Figure 29. Others Examples

Figure 30. Global FPC Appearance Inspection Equipment Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 31. Global FPC Appearance Inspection Equipment Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 32. Global FPC Appearance Inspection Equipment Sales Quantity (2021-2032) & (Units)

Figure 33. Global FPC Appearance Inspection Equipment Price (2021-2032) & (US\$/Unit)

Figure 34. Global FPC Appearance Inspection Equipment Sales Quantity Market Share by Manufacturer in 2025

Figure 35. Global FPC Appearance Inspection Equipment Revenue Market Share by Manufacturer in 2025

Figure 36. Producer Shipments of FPC Appearance Inspection Equipment by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 37. Top 3 FPC Appearance Inspection Equipment Manufacturer (Revenue) Market Share in 2025

Figure 38. Top 6 FPC Appearance Inspection Equipment Manufacturer (Revenue) Market Share in 2025

Figure 39. Global FPC Appearance Inspection Equipment Sales Quantity Market Share by Region (2021-2032)

Figure 40. Global FPC Appearance Inspection Equipment Consumption Value Market Share by Region (2021-2032)

Figure 41. North America FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 42. Europe FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 43. Asia-Pacific FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 44. South America FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 45. Middle East & Africa FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 46. Global FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 47. Global FPC Appearance Inspection Equipment Consumption Value Market

Share by Type (2021-2032)

Figure 48. Global FPC Appearance Inspection Equipment Average Price by Type (2021-2032) & (US\$/Unit)

Figure 49. Global FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 50. Global FPC Appearance Inspection Equipment Revenue Market Share by Application (2021-2032)

Figure 51. Global FPC Appearance Inspection Equipment Average Price by Application (2021-2032) & (US\$/Unit)

Figure 52. North America FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 53. North America FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 54. North America FPC Appearance Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 55. North America FPC Appearance Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 56. United States FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 57. Canada FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 58. Mexico FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 59. Europe FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 60. Europe FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 61. Europe FPC Appearance Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 62. Europe FPC Appearance Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 63. Germany FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 64. France FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 65. United Kingdom FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 66. Russia FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

- Figure 67. Italy FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 68. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)
- Figure 69. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)
- Figure 70. Asia-Pacific FPC Appearance Inspection Equipment Sales Quantity Market Share by Region (2021-2032)
- Figure 71. Asia-Pacific FPC Appearance Inspection Equipment Consumption Value Market Share by Region (2021-2032)
- Figure 72. China FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 73. Japan FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 74. South Korea FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 75. India FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 76. Southeast Asia FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 77. Australia FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 78. South America FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)
- Figure 79. South America FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)
- Figure 80. South America FPC Appearance Inspection Equipment Sales Quantity Market Share by Country (2021-2032)
- Figure 81. South America FPC Appearance Inspection Equipment Consumption Value Market Share by Country (2021-2032)
- Figure 82. Brazil FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 83. Argentina FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)
- Figure 84. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity Market Share by Type (2021-2032)
- Figure 85. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity Market Share by Application (2021-2032)
- Figure 86. Middle East & Africa FPC Appearance Inspection Equipment Sales Quantity

Market Share by Country (2021-2032)

Figure 87. Middle East & Africa FPC Appearance Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 88. Turkey FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 89. Egypt FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 90. Saudi Arabia FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 91. South Africa FPC Appearance Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 92. FPC Appearance Inspection Equipment Market Drivers

Figure 93. FPC Appearance Inspection Equipment Market Restraints

Figure 94. FPC Appearance Inspection Equipment Market Trends

Figure 95. Porters Five Forces Analysis

Figure 96. Manufacturing Cost Structure Analysis of FPC Appearance Inspection Equipment in 2025

Figure 97. Manufacturing Process Analysis of FPC Appearance Inspection Equipment

Figure 98. FPC Appearance Inspection Equipment Industrial Chain

Figure 99. Sales Channel: Direct to End-User vs Distributors

Figure 100. Direct Channel Pros & Cons

Figure 101. Indirect Channel Pros & Cons

Figure 102. Methodology

Figure 103. Research Process and Data Source

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