

Global Laser Direct Imaging System for PCB Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser Direct Imaging System for PCB market size is expected to reach \$ 1388 million by 2032, rising at a market growth of 2.7% CAGR during the forecast period (2026-2032).

In 2025 the global Laser Direct Imaging (LDI) Equipment sales were 2,407 (Units) and The average selling price is 467 K USD/Unit.

The Laser Direct Imaging (LDI) Equipment offers auto focus capabilities so that the system can handle different thicknesses of material and rapid job change-overs without expensive tooling. Using LDI to create the circuit traces gives the PCB manufacturers a lot of advantages, most of them pertaining to weaknesses of using a Photo-tool. Eliminating the need of a Photo-tool removes alignment issues, light refraction issues, and those imperfections related to environmental variations. Also, with LDI, PCB factories can achieve the development of images that require more precision, and resolution, due to the computer's enhanced optical alignment, that automatically compensates distortion on the materials. Changes to the required images, are also easier to achieve with LDI: with the traditional approach, the smallest mistake on the Photo-tool, required the factory to produce a new one, wasting time and money; however, with LDI, these changes became a matter of updating the design file, which can be done more consistently and cost-effectively.

Core driving factor

The demand for 5G and high-end PCBs: The demand for multi-layer and high-speed PCBs has driven the penetration rate of LDI in the mid-to-high-end manufacturing sector (currently over 60%).

Emerging application expansion: Accelerating the application of technologies in scenarios such as MiniLED, IC substrate, and precision processing of new energy vehicle batteries.

Policy support: China's special policies and tax incentives for intelligent manufacturing promote the process of domestic production.

Technological iteration direction

High precision and intelligence: The domestic production rate of optical systems has increased (currently about 50%), but high-power ultraviolet laser modules still rely on imports. Digital control technology continues to upgrade.

Multi-material compatibility: Extended to the processing of metals, ceramics and other materials, meeting the demands of aerospace, medical and other fields.

Competitive situation

International dominance: International enterprises such as Orbotech hold 81% of the global market share, while Chinese manufacturers like XGI Microelectronics and Han's CNC are accelerating their pursuit.

Domestic substitution space: China has a high dependence on imported high-end equipment, and domestic enterprises focus on breakthroughs in core components (such as Ruike Laser).

Industrial chain synergy

Upstream breakthrough: The localization of lasers and optical components is accelerating, but key modules still need to be imported.

Downstream demand differentiation: Semiconductor packaging and new energy batteries have become key investment areas.

Risks and Challenges

Risk of technological substitution: Traditional exposure processes still have cost advantages, while new display technologies may engage in cross-industry competition.

External uncertainties: Be vigilant about the risks of fluctuations in raw material prices, international trade barriers and technological blockades.

This report studies the global Laser Direct Imaging System for PCB production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Direct Imaging System for PCB and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Laser Direct Imaging System for PCB that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser Direct Imaging System for PCB total production and demand, 2021-2032, (Unit)

Global Laser Direct Imaging System for PCB total production value, 2021-2032, (USD Million)

Global Laser Direct Imaging System for PCB production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Laser Direct Imaging System for PCB consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Laser Direct Imaging System for PCB domestic production, consumption, key domestic manufacturers and share

Global Laser Direct Imaging System for PCB production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Laser Direct Imaging System for PCB production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Laser Direct Imaging System for PCB production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Laser Direct Imaging System for PCB market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KLA(Orbotech), CFMEE, YS Photech, SCREEN, ORC, Mikoptik, Aiscnt, ADTech, Manz, Han's CNC, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Laser Direct Imaging System for PCB market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Laser Direct Imaging System for PCB Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Direct Imaging System for PCB Market, Segmentation by Type:

Polygon Mirror 365nm

DMD 405nm

Global Laser Direct Imaging System for PCB Market, Segmentation by Resolution:

High-resolution LDI

Medium-resolution LDI

Low-resolution LDI

Global Laser Direct Imaging System for PCB Market, Segmentation by Mechanical Structure:

Flatbed Platen

External Drum

Global Laser Direct Imaging System for PCB Market, Segmentation by Application:

HDI and Standard PCB

Thick Copper and Ceramic PCB

Super Large Size PCB

Other areas

Companies Profiled:

KLA(Orbotech)

CFMEE

YS Photech

SCREEN

ORC

Mikoptik

Aiscent

ADTech

Manz

Han's CNC

Anhui Disking Opto-Electric

Via Mechanics

Guangdong Siwo advanced equipment

Delphi Laser

Limata

TZTEK

Key Questions Answered:

1. How big is the global Laser Direct Imaging System for PCB market?
2. What is the demand of the global Laser Direct Imaging System for PCB market?
3. What is the year over year growth of the global Laser Direct Imaging System for PCB market?
4. What is the production and production value of the global Laser Direct Imaging System for PCB market?
5. Who are the key producers in the global Laser Direct Imaging System for PCB market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Laser Direct Imaging System for PCB Introduction
- 1.2 World Laser Direct Imaging System for PCB Supply & Forecast
 - 1.2.1 World Laser Direct Imaging System for PCB Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Laser Direct Imaging System for PCB Production (2021-2032)
 - 1.2.3 World Laser Direct Imaging System for PCB Pricing Trends (2021-2032)
- 1.3 World Laser Direct Imaging System for PCB Production by Region (Based on Production Site)
 - 1.3.1 World Laser Direct Imaging System for PCB Production Value by Region (2021-2032)
 - 1.3.2 World Laser Direct Imaging System for PCB Production by Region (2021-2032)
 - 1.3.3 World Laser Direct Imaging System for PCB Average Price by Region (2021-2032)
 - 1.3.4 North America Laser Direct Imaging System for PCB Production (2021-2032)
 - 1.3.5 Europe Laser Direct Imaging System for PCB Production (2021-2032)
 - 1.3.6 China Laser Direct Imaging System for PCB Production (2021-2032)
 - 1.3.7 Japan Laser Direct Imaging System for PCB Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Laser Direct Imaging System for PCB Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Laser Direct Imaging System for PCB Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Laser Direct Imaging System for PCB Demand (2021-2032)
- 2.2 World Laser Direct Imaging System for PCB Consumption by Region
 - 2.2.1 World Laser Direct Imaging System for PCB Consumption by Region (2021-2026)
 - 2.2.2 World Laser Direct Imaging System for PCB Consumption Forecast by Region (2027-2032)
- 2.3 United States Laser Direct Imaging System for PCB Consumption (2021-2032)
- 2.4 China Laser Direct Imaging System for PCB Consumption (2021-2032)
- 2.5 Europe Laser Direct Imaging System for PCB Consumption (2021-2032)
- 2.6 Japan Laser Direct Imaging System for PCB Consumption (2021-2032)
- 2.7 South Korea Laser Direct Imaging System for PCB Consumption (2021-2032)

2.8 ASEAN Laser Direct Imaging System for PCB Consumption (2021-2032)

2.9 India Laser Direct Imaging System for PCB Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Laser Direct Imaging System for PCB Production Value by Manufacturer (2021-2026)

3.2 World Laser Direct Imaging System for PCB Production by Manufacturer (2021-2026)

3.3 World Laser Direct Imaging System for PCB Average Price by Manufacturer (2021-2026)

3.4 Laser Direct Imaging System for PCB Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Laser Direct Imaging System for PCB Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Laser Direct Imaging System for PCB in 2025

3.5.3 Global Concentration Ratios (CR8) for Laser Direct Imaging System for PCB in 2025

3.6 Laser Direct Imaging System for PCB Market: Overall Company Footprint Analysis

3.6.1 Laser Direct Imaging System for PCB Market: Region Footprint

3.6.2 Laser Direct Imaging System for PCB Market: Company Product Type Footprint

3.6.3 Laser Direct Imaging System for PCB Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Laser Direct Imaging System for PCB Production Value Comparison

4.1.1 United States VS China: Laser Direct Imaging System for PCB Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Laser Direct Imaging System for PCB Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Laser Direct Imaging System for PCB Production Comparison

4.2.1 United States VS China: Laser Direct Imaging System for PCB Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Laser Direct Imaging System for PCB Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Laser Direct Imaging System for PCB Consumption Comparison

4.3.1 United States VS China: Laser Direct Imaging System for PCB Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Laser Direct Imaging System for PCB Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Laser Direct Imaging System for PCB Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Laser Direct Imaging System for PCB Production Value (2021-2026)

4.4.3 United States Based Manufacturers Laser Direct Imaging System for PCB Production (2021-2026)

4.5 China Based Laser Direct Imaging System for PCB Manufacturers and Market Share

4.5.1 China Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Laser Direct Imaging System for PCB Production Value (2021-2026)

4.5.3 China Based Manufacturers Laser Direct Imaging System for PCB Production (2021-2026)

4.6 Rest of World Based Laser Direct Imaging System for PCB Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Laser Direct Imaging System for PCB Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Polygon Mirror 365nm

5.2.2 DMD 405nm

5.3 Market Segment by Type

5.3.1 World Laser Direct Imaging System for PCB Production by Type (2021-2032)

5.3.2 World Laser Direct Imaging System for PCB Production Value by Type (2021-2032)

5.3.3 World Laser Direct Imaging System for PCB Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RESOLUTION

6.1 World Laser Direct Imaging System for PCB Market Size Overview by Resolution: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Resolution

6.2.1 High-resolution LDI

6.2.2 Medium-resolution LDI

6.2.3 Low-resolution LDI

6.3 Market Segment by Resolution

6.3.1 World Laser Direct Imaging System for PCB Production by Resolution (2021-2032)

6.3.2 World Laser Direct Imaging System for PCB Production Value by Resolution (2021-2032)

6.3.3 World Laser Direct Imaging System for PCB Average Price by Resolution (2021-2032)

7 MARKET ANALYSIS BY MECHANICAL STRUCTURE

7.1 World Laser Direct Imaging System for PCB Market Size Overview by Mechanical Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Mechanical Structure

7.2.1 Flatbed Platen

7.2.2 External Drum

7.3 Market Segment by Mechanical Structure

7.3.1 World Laser Direct Imaging System for PCB Production by Mechanical Structure (2021-2032)

7.3.2 World Laser Direct Imaging System for PCB Production Value by Mechanical Structure (2021-2032)

7.3.3 World Laser Direct Imaging System for PCB Average Price by Mechanical Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Laser Direct Imaging System for PCB Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 HDI and Standard PCB

8.2.2 Thick Copper and Ceramic PCB

8.2.3 Super Large Size PCB

8.2.4 Other areas

8.3 Market Segment by Application

8.3.1 World Laser Direct Imaging System for PCB Production by Application (2021-2032)

8.3.2 World Laser Direct Imaging System for PCB Production Value by Application (2021-2032)

8.3.3 World Laser Direct Imaging System for PCB Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 KLA(Orbotech)

9.1.1 KLA(Orbotech) Details

9.1.2 KLA(Orbotech) Major Business

9.1.3 KLA(Orbotech) Laser Direct Imaging System for PCB Product and Services

9.1.4 KLA(Orbotech) Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 KLA(Orbotech) Recent Developments/Updates

9.1.6 KLA(Orbotech) Competitive Strengths & Weaknesses

9.2 CFMEE

9.2.1 CFMEE Details

9.2.2 CFMEE Major Business

9.2.3 CFMEE Laser Direct Imaging System for PCB Product and Services

9.2.4 CFMEE Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 CFMEE Recent Developments/Updates

9.2.6 CFMEE Competitive Strengths & Weaknesses

9.3 YS Phototech

- 9.3.1 YS Photech Details
- 9.3.2 YS Photech Major Business
- 9.3.3 YS Photech Laser Direct Imaging System for PCB Product and Services
- 9.3.4 YS Photech Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 YS Photech Recent Developments/Updates
- 9.3.6 YS Photech Competitive Strengths & Weaknesses
- 9.4 SCREEN
 - 9.4.1 SCREEN Details
 - 9.4.2 SCREEN Major Business
 - 9.4.3 SCREEN Laser Direct Imaging System for PCB Product and Services
 - 9.4.4 SCREEN Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 SCREEN Recent Developments/Updates
 - 9.4.6 SCREEN Competitive Strengths & Weaknesses
- 9.5 ORC
 - 9.5.1 ORC Details
 - 9.5.2 ORC Major Business
 - 9.5.3 ORC Laser Direct Imaging System for PCB Product and Services
 - 9.5.4 ORC Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ORC Recent Developments/Updates
 - 9.5.6 ORC Competitive Strengths & Weaknesses
- 9.6 Mikoptik
 - 9.6.1 Mikoptik Details
 - 9.6.2 Mikoptik Major Business
 - 9.6.3 Mikoptik Laser Direct Imaging System for PCB Product and Services
 - 9.6.4 Mikoptik Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Mikoptik Recent Developments/Updates
 - 9.6.6 Mikoptik Competitive Strengths & Weaknesses
- 9.7 Aiscent
 - 9.7.1 Aiscent Details
 - 9.7.2 Aiscent Major Business
 - 9.7.3 Aiscent Laser Direct Imaging System for PCB Product and Services
 - 9.7.4 Aiscent Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Aiscent Recent Developments/Updates
 - 9.7.6 Aiscent Competitive Strengths & Weaknesses

9.8 ADTech

9.8.1 ADTech Details

9.8.2 ADTech Major Business

9.8.3 ADTech Laser Direct Imaging System for PCB Product and Services

9.8.4 ADTech Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 ADTech Recent Developments/Updates

9.8.6 ADTech Competitive Strengths & Weaknesses

9.9 Manz

9.9.1 Manz Details

9.9.2 Manz Major Business

9.9.3 Manz Laser Direct Imaging System for PCB Product and Services

9.9.4 Manz Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Manz Recent Developments/Updates

9.9.6 Manz Competitive Strengths & Weaknesses

9.10 Han's CNC

9.10.1 Han's CNC Details

9.10.2 Han's CNC Major Business

9.10.3 Han's CNC Laser Direct Imaging System for PCB Product and Services

9.10.4 Han's CNC Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Han's CNC Recent Developments/Updates

9.10.6 Han's CNC Competitive Strengths & Weaknesses

9.11 Anhui Disking Opto-Electric

9.11.1 Anhui Disking Opto-Electric Details

9.11.2 Anhui Disking Opto-Electric Major Business

9.11.3 Anhui Disking Opto-Electric Laser Direct Imaging System for PCB Product and Services

9.11.4 Anhui Disking Opto-Electric Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Anhui Disking Opto-Electric Recent Developments/Updates

9.11.6 Anhui Disking Opto-Electric Competitive Strengths & Weaknesses

9.12 Via Mechanics

9.12.1 Via Mechanics Details

9.12.2 Via Mechanics Major Business

9.12.3 Via Mechanics Laser Direct Imaging System for PCB Product and Services

9.12.4 Via Mechanics Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.12.5 Via Mechanics Recent Developments/Updates
- 9.12.6 Via Mechanics Competitive Strengths & Weaknesses
- 9.13 Guangdong Siwo advanced equipment
 - 9.13.1 Guangdong Siwo advanced equipment Details
 - 9.13.2 Guangdong Siwo advanced equipment Major Business
 - 9.13.3 Guangdong Siwo advanced equipment Laser Direct Imaging System for PCB Product and Services
 - 9.13.4 Guangdong Siwo advanced equipment Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Guangdong Siwo advanced equipment Recent Developments/Updates
 - 9.13.6 Guangdong Siwo advanced equipment Competitive Strengths & Weaknesses
- 9.14 Delphi Laser
 - 9.14.1 Delphi Laser Details
 - 9.14.2 Delphi Laser Major Business
 - 9.14.3 Delphi Laser Laser Direct Imaging System for PCB Product and Services
 - 9.14.4 Delphi Laser Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Delphi Laser Recent Developments/Updates
 - 9.14.6 Delphi Laser Competitive Strengths & Weaknesses
- 9.15 Limata
 - 9.15.1 Limata Details
 - 9.15.2 Limata Major Business
 - 9.15.3 Limata Laser Direct Imaging System for PCB Product and Services
 - 9.15.4 Limata Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Limata Recent Developments/Updates
 - 9.15.6 Limata Competitive Strengths & Weaknesses
- 9.16 TZTEK
 - 9.16.1 TZTEK Details
 - 9.16.2 TZTEK Major Business
 - 9.16.3 TZTEK Laser Direct Imaging System for PCB Product and Services
 - 9.16.4 TZTEK Laser Direct Imaging System for PCB Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 TZTEK Recent Developments/Updates
 - 9.16.6 TZTEK Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Laser Direct Imaging System for PCB Industry Chain

10.2 Laser Direct Imaging System for PCB Upstream Analysis

10.2.1 Laser Direct Imaging System for PCB Core Raw Materials

10.2.2 Main Manufacturers of Laser Direct Imaging System for PCB Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Laser Direct Imaging System for PCB Production Mode

10.6 Laser Direct Imaging System for PCB Procurement Model

10.7 Laser Direct Imaging System for PCB Industry Sales Model and Sales Channels

10.7.1 Laser Direct Imaging System for PCB Sales Model

10.7.2 Laser Direct Imaging System for PCB Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Laser Direct Imaging System for PCB Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Laser Direct Imaging System for PCB Production Value by Region (2021-2026) & (USD Million)

Table 3. World Laser Direct Imaging System for PCB Production Value by Region (2027-2032) & (USD Million)

Table 4. World Laser Direct Imaging System for PCB Production Value Market Share by Region (2021-2026)

Table 5. World Laser Direct Imaging System for PCB Production Value Market Share by Region (2027-2032)

Table 6. World Laser Direct Imaging System for PCB Production by Region (2021-2026) & (Unit)

Table 7. World Laser Direct Imaging System for PCB Production by Region (2027-2032) & (Unit)

Table 8. World Laser Direct Imaging System for PCB Production Market Share by Region (2021-2026)

Table 9. World Laser Direct Imaging System for PCB Production Market Share by Region (2027-2032)

Table 10. World Laser Direct Imaging System for PCB Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Laser Direct Imaging System for PCB Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Laser Direct Imaging System for PCB Major Market Trends

Table 13. World Laser Direct Imaging System for PCB Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Unit)

Table 14. World Laser Direct Imaging System for PCB Consumption by Region (2021-2026) & (Unit)

Table 15. World Laser Direct Imaging System for PCB Consumption Forecast by Region (2027-2032) & (Unit)

Table 16. World Laser Direct Imaging System for PCB Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Laser Direct Imaging System for PCB Producers in 2025

Table 18. World Laser Direct Imaging System for PCB Production by Manufacturer (2021-2026) & (Unit)

Table 19. Production Market Share of Key Laser Direct Imaging System for PCB Producers in 2025

Table 20. World Laser Direct Imaging System for PCB Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Laser Direct Imaging System for PCB Company Evaluation Quadrant

Table 22. World Laser Direct Imaging System for PCB Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Laser Direct Imaging System for PCB Production Site of Key Manufacturer

Table 24. Laser Direct Imaging System for PCB Market: Company Product Type Footprint

Table 25. Laser Direct Imaging System for PCB Market: Company Product Application Footprint

Table 26. Laser Direct Imaging System for PCB Competitive Factors

Table 27. Laser Direct Imaging System for PCB New Entrant and Capacity Expansion Plans

Table 28. Laser Direct Imaging System for PCB Mergers & Acquisitions Activity

Table 29. United States VS China Laser Direct Imaging System for PCB Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Laser Direct Imaging System for PCB Production Comparison, (2021 & 2025 & 2032) & (Unit)

Table 31. United States VS China Laser Direct Imaging System for PCB Consumption Comparison, (2021 & 2025 & 2032) & (Unit)

Table 32. United States Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Laser Direct Imaging System for PCB Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Laser Direct Imaging System for PCB Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Laser Direct Imaging System for PCB Production (2021-2026) & (Unit)

Table 36. United States Based Manufacturers Laser Direct Imaging System for PCB Production Market Share (2021-2026)

Table 37. China Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Laser Direct Imaging System for PCB Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Laser Direct Imaging System for PCB Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Laser Direct Imaging System for PCB Production, (2021-2026) & (Unit)
Table 41. China Based Manufacturers Laser Direct Imaging System for PCB Production Market Share (2021-2026)
Table 42. Rest of World Based Laser Direct Imaging System for PCB Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production, (2021-2026) & (Unit)
Table 46. Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production Market Share (2021-2026)
Table 47. World Laser Direct Imaging System for PCB Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Laser Direct Imaging System for PCB Production by Type (2021-2026) & (Unit)
Table 49. World Laser Direct Imaging System for PCB Production by Type (2027-2032) & (Unit)
Table 50. World Laser Direct Imaging System for PCB Production Value by Type (2021-2026) & (USD Million)
Table 51. World Laser Direct Imaging System for PCB Production Value by Type (2027-2032) & (USD Million)
Table 52. World Laser Direct Imaging System for PCB Average Price by Type (2021-2026) & (K US\$/Unit)
Table 53. World Laser Direct Imaging System for PCB Average Price by Type (2027-2032) & (K US\$/Unit)
Table 54. World Laser Direct Imaging System for PCB Production Value by Resolution, (USD Million), 2021 & 2025 & 2032
Table 55. World Laser Direct Imaging System for PCB Production by Resolution (2021-2026) & (Unit)
Table 56. World Laser Direct Imaging System for PCB Production by Resolution (2027-2032) & (Unit)
Table 57. World Laser Direct Imaging System for PCB Production Value by Resolution (2021-2026) & (USD Million)
Table 58. World Laser Direct Imaging System for PCB Production Value by Resolution (2027-2032) & (USD Million)
Table 59. World Laser Direct Imaging System for PCB Average Price by Resolution

(2021-2026) & (K US\$/Unit)

Table 60. World Laser Direct Imaging System for PCB Average Price by Resolution (2027-2032) & (K US\$/Unit)

Table 61. World Laser Direct Imaging System for PCB Production Value by Mechanical Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Laser Direct Imaging System for PCB Production by Mechanical Structure (2021-2026) & (Unit)

Table 63. World Laser Direct Imaging System for PCB Production by Mechanical Structure (2027-2032) & (Unit)

Table 64. World Laser Direct Imaging System for PCB Production Value by Mechanical Structure (2021-2026) & (USD Million)

Table 65. World Laser Direct Imaging System for PCB Production Value by Mechanical Structure (2027-2032) & (USD Million)

Table 66. World Laser Direct Imaging System for PCB Average Price by Mechanical Structure (2021-2026) & (K US\$/Unit)

Table 67. World Laser Direct Imaging System for PCB Average Price by Mechanical Structure (2027-2032) & (K US\$/Unit)

Table 68. World Laser Direct Imaging System for PCB Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Laser Direct Imaging System for PCB Production by Application (2021-2026) & (Unit)

Table 70. World Laser Direct Imaging System for PCB Production by Application (2027-2032) & (Unit)

Table 71. World Laser Direct Imaging System for PCB Production Value by Application (2021-2026) & (USD Million)

Table 72. World Laser Direct Imaging System for PCB Production Value by Application (2027-2032) & (USD Million)

Table 73. World Laser Direct Imaging System for PCB Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Laser Direct Imaging System for PCB Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. KLA(Orbotech) Basic Information, Manufacturing Base and Competitors

Table 76. KLA(Orbotech) Major Business

Table 77. KLA(Orbotech) Laser Direct Imaging System for PCB Product and Services

Table 78. KLA(Orbotech) Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. KLA(Orbotech) Recent Developments/Updates

Table 80. KLA(Orbotech) Competitive Strengths & Weaknesses

Table 81. CFMEE Basic Information, Manufacturing Base and Competitors

Table 82. CFMEE Major Business

Table 83. CFMEE Laser Direct Imaging System for PCB Product and Services

Table 84. CFMEE Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. CFMEE Recent Developments/Updates

Table 86. CFMEE Competitive Strengths & Weaknesses

Table 87. YS Photech Basic Information, Manufacturing Base and Competitors

Table 88. YS Photech Major Business

Table 89. YS Photech Laser Direct Imaging System for PCB Product and Services

Table 90. YS Photech Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. YS Photech Recent Developments/Updates

Table 92. YS Photech Competitive Strengths & Weaknesses

Table 93. SCREEN Basic Information, Manufacturing Base and Competitors

Table 94. SCREEN Major Business

Table 95. SCREEN Laser Direct Imaging System for PCB Product and Services

Table 96. SCREEN Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SCREEN Recent Developments/Updates

Table 98. SCREEN Competitive Strengths & Weaknesses

Table 99. ORC Basic Information, Manufacturing Base and Competitors

Table 100. ORC Major Business

Table 101. ORC Laser Direct Imaging System for PCB Product and Services

Table 102. ORC Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ORC Recent Developments/Updates

Table 104. ORC Competitive Strengths & Weaknesses

Table 105. Mikoptik Basic Information, Manufacturing Base and Competitors

Table 106. Mikoptik Major Business

Table 107. Mikoptik Laser Direct Imaging System for PCB Product and Services

Table 108. Mikoptik Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Mikoptik Recent Developments/Updates

Table 110. Mikoptik Competitive Strengths & Weaknesses

Table 111. Aiscent Basic Information, Manufacturing Base and Competitors

Table 112. Aiscent Major Business

Table 113. Aiscent Laser Direct Imaging System for PCB Product and Services

Table 114. Aiscent Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Aiscent Recent Developments/Updates

Table 116. Aiscent Competitive Strengths & Weaknesses

Table 117. ADTech Basic Information, Manufacturing Base and Competitors

Table 118. ADTech Major Business

Table 119. ADTech Laser Direct Imaging System for PCB Product and Services

Table 120. ADTech Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. ADTech Recent Developments/Updates

Table 122. ADTech Competitive Strengths & Weaknesses

Table 123. Manz Basic Information, Manufacturing Base and Competitors

Table 124. Manz Major Business

Table 125. Manz Laser Direct Imaging System for PCB Product and Services

Table 126. Manz Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Manz Recent Developments/Updates

Table 128. Manz Competitive Strengths & Weaknesses

Table 129. Han's CNC Basic Information, Manufacturing Base and Competitors

Table 130. Han's CNC Major Business

Table 131. Han's CNC Laser Direct Imaging System for PCB Product and Services

Table 132. Han's CNC Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Han's CNC Recent Developments/Updates

Table 134. Han's CNC Competitive Strengths & Weaknesses

Table 135. Anhui Disking Opto-Electric Basic Information, Manufacturing Base and Competitors

Table 136. Anhui Disking Opto-Electric Major Business

Table 137. Anhui Disking Opto-Electric Laser Direct Imaging System for PCB Product and Services

Table 138. Anhui Disking Opto-Electric Laser Direct Imaging System for PCB

Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Anhui Disking Opto-Electric Recent Developments/Updates

Table 140. Anhui Disking Opto-Electric Competitive Strengths & Weaknesses

Table 141. Via Mechanics Basic Information, Manufacturing Base and Competitors

Table 142. Via Mechanics Major Business

Table 143. Via Mechanics Laser Direct Imaging System for PCB Product and Services

Table 144. Via Mechanics Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Via Mechanics Recent Developments/Updates

Table 146. Via Mechanics Competitive Strengths & Weaknesses

Table 147. Guangdong Siwo advanced equipment Basic Information, Manufacturing Base and Competitors

Table 148. Guangdong Siwo advanced equipment Major Business

Table 149. Guangdong Siwo advanced equipment Laser Direct Imaging System for PCB Product and Services

Table 150. Guangdong Siwo advanced equipment Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Guangdong Siwo advanced equipment Recent Developments/Updates

Table 152. Guangdong Siwo advanced equipment Competitive Strengths & Weaknesses

Table 153. Delphi Laser Basic Information, Manufacturing Base and Competitors

Table 154. Delphi Laser Major Business

Table 155. Delphi Laser Laser Direct Imaging System for PCB Product and Services

Table 156. Delphi Laser Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Delphi Laser Recent Developments/Updates

Table 158. Delphi Laser Competitive Strengths & Weaknesses

Table 159. Limata Basic Information, Manufacturing Base and Competitors

Table 160. Limata Major Business

Table 161. Limata Laser Direct Imaging System for PCB Product and Services

Table 162. Limata Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Limata Recent Developments/Updates

Table 164. Limata Competitive Strengths & Weaknesses

Table 165. TZTEK Basic Information, Manufacturing Base and Competitors

Table 166. TZTEK Major Business

Table 167. TZTEK Laser Direct Imaging System for PCB Product and Services

Table 168. TZTEK Laser Direct Imaging System for PCB Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. TZTEK Recent Developments/Updates

Table 170. TZTEK Competitive Strengths & Weaknesses

Table 171. Global Key Players of Laser Direct Imaging System for PCB Upstream (Raw Materials)

Table 172. Global Laser Direct Imaging System for PCB Typical Customers

Table 173. Laser Direct Imaging System for PCB Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Laser Direct Imaging System for PCB Picture
- Figure 2. World Laser Direct Imaging System for PCB Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Laser Direct Imaging System for PCB Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Laser Direct Imaging System for PCB Production (2021-2032) & (Unit)
- Figure 5. World Laser Direct Imaging System for PCB Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Laser Direct Imaging System for PCB Production Value Market Share by Region (2021-2032)
- Figure 7. World Laser Direct Imaging System for PCB Production Market Share by Region (2021-2032)
- Figure 8. North America Laser Direct Imaging System for PCB Production (2021-2032) & (Unit)
- Figure 9. Europe Laser Direct Imaging System for PCB Production (2021-2032) & (Unit)
- Figure 10. China Laser Direct Imaging System for PCB Production (2021-2032) & (Unit)
- Figure 11. Japan Laser Direct Imaging System for PCB Production (2021-2032) & (Unit)
- Figure 12. Laser Direct Imaging System for PCB Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 15. World Laser Direct Imaging System for PCB Consumption Market Share by Region (2021-2032)
- Figure 16. United States Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 17. China Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 18. Europe Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 19. Japan Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 20. South Korea Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)
- Figure 21. ASEAN Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)

Figure 22. India Laser Direct Imaging System for PCB Consumption (2021-2032) & (Unit)

Figure 23. Producer Shipments of Laser Direct Imaging System for PCB by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Laser Direct Imaging System for PCB Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Laser Direct Imaging System for PCB Markets in 2025

Figure 26. United States VS China: Laser Direct Imaging System for PCB Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Laser Direct Imaging System for PCB Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Laser Direct Imaging System for PCB Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Laser Direct Imaging System for PCB Production Market Share 2025

Figure 30. China Based Manufacturers Laser Direct Imaging System for PCB Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Laser Direct Imaging System for PCB Production Market Share 2025

Figure 32. World Laser Direct Imaging System for PCB Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Laser Direct Imaging System for PCB Production Value Market Share by Type in 2025

Figure 34. Polygon Mirror 365nm

Figure 35. DMD 405nm

Figure 36. World Laser Direct Imaging System for PCB Production Market Share by Type (2021-2032)

Figure 37. World Laser Direct Imaging System for PCB Production Value Market Share by Type (2021-2032)

Figure 38. World Laser Direct Imaging System for PCB Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Laser Direct Imaging System for PCB Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Figure 40. World Laser Direct Imaging System for PCB Production Value Market Share by Resolution in 2025

Figure 41. High-resolution LDI

Figure 42. Medium-resolution LDI

Figure 43. Low-resolution LDI

Figure 44. World Laser Direct Imaging System for PCB Production Market Share by Resolution (2021-2032)

Figure 45. World Laser Direct Imaging System for PCB Production Value Market Share by Resolution (2021-2032)

Figure 46. World Laser Direct Imaging System for PCB Average Price by Resolution (2021-2032) & (K US\$/Unit)

Figure 47. World Laser Direct Imaging System for PCB Production Value by Mechanical Structure, (USD Million), 2021 & 2025 & 2032

Figure 48. World Laser Direct Imaging System for PCB Production Value Market Share by Mechanical Structure in 2025

Figure 49. Flatbed Platen

Figure 50. External Drum

Figure 51. World Laser Direct Imaging System for PCB Production Market Share by Mechanical Structure (2021-2032)

Figure 52. World Laser Direct Imaging System for PCB Production Value Market Share by Mechanical Structure (2021-2032)

Figure 53. World Laser Direct Imaging System for PCB Average Price by Mechanical Structure (2021-2032) & (K US\$/Unit)

Figure 54. World Laser Direct Imaging System for PCB Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Laser Direct Imaging System for PCB Production Value Market Share by Application in 2025

Figure 56. HDI and Standard PCB

Figure 57. Thick Copper and Ceramic PCB

Figure 58. Super Large Size PCB

Figure 59. Other areas

Figure 60. World Laser Direct Imaging System for PCB Production Market Share by Application (2021-2032)

Figure 61. World Laser Direct Imaging System for PCB Production Value Market Share by Application (2021-2032)

Figure 62. World Laser Direct Imaging System for PCB Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 63. Laser Direct Imaging System for PCB Industry Chain

Figure 64. Laser Direct Imaging System for PCB Procurement Model

Figure 65. Laser Direct Imaging System for PCB Sales Model

Figure 66. Laser Direct Imaging System for PCB Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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