

Global Laser Direct Imaging Exposure Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser Direct Imaging Exposure Machine 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 Exposure Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Direct Imaging Exposure Machine 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 Exposure Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser Direct Imaging Exposure Machine total production and demand, 2021-2032, (Units)

Global Laser Direct Imaging Exposure Machine total production value, 2021-2032, (USD Million)

Global Laser Direct Imaging Exposure Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laser Direct Imaging Exposure Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser Direct Imaging Exposure Machine domestic production, consumption, key domestic manufacturers and share

Global Laser Direct Imaging Exposure Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laser Direct Imaging Exposure Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laser Direct Imaging Exposure Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laser Direct Imaging Exposure Machine 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 Exposure Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) 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 Exposure Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Direct Imaging Exposure Machine Market, Segmentation by Type:

Polygon Mirror 365nm

DMD 405nm

Global Laser Direct Imaging Exposure Machine Market, Segmentation by Resolution:

High-resolution LDI

Medium-resolution LDI

Low-resolution LDI

Global Laser Direct Imaging Exposure Machine Market, Segmentation by Mechanical Structure:

Flatbed Platen

External Drum

Global Laser Direct Imaging Exposure Machine Market, Segmentation by Application:

HDI and Standard PCB

Thick-Copper and Ceramic PCB

Oversized PCB

Display

Semiconductor

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

EV Group (EVG)

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Laser Direct Imaging Exposure Machine Demand (2021-2032)
- 2.2 World Laser Direct Imaging Exposure Machine Consumption by Region
 - 2.2.1 World Laser Direct Imaging Exposure Machine Consumption by Region (2021-2026)
 - 2.2.2 World Laser Direct Imaging Exposure Machine Consumption Forecast by Region (2027-2032)
- 2.3 United States Laser Direct Imaging Exposure Machine Consumption (2021-2032)
- 2.4 China Laser Direct Imaging Exposure Machine Consumption (2021-2032)
- 2.5 Europe Laser Direct Imaging Exposure Machine Consumption (2021-2032)
- 2.6 Japan Laser Direct Imaging Exposure Machine Consumption (2021-2032)

- 2.7 South Korea Laser Direct Imaging Exposure Machine Consumption (2021-2032)
- 2.8 ASEAN Laser Direct Imaging Exposure Machine Consumption (2021-2032)
- 2.9 India Laser Direct Imaging Exposure Machine Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Laser Direct Imaging Exposure Machine Production Value by Manufacturer (2021-2026)
- 3.2 World Laser Direct Imaging Exposure Machine Production by Manufacturer (2021-2026)
- 3.3 World Laser Direct Imaging Exposure Machine Average Price by Manufacturer (2021-2026)
- 3.4 Laser Direct Imaging Exposure Machine Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Laser Direct Imaging Exposure Machine Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Laser Direct Imaging Exposure Machine in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Laser Direct Imaging Exposure Machine in 2025
- 3.6 Laser Direct Imaging Exposure Machine Market: Overall Company Footprint Analysis
 - 3.6.1 Laser Direct Imaging Exposure Machine Market: Region Footprint
 - 3.6.2 Laser Direct Imaging Exposure Machine Market: Company Product Type Footprint
 - 3.6.3 Laser Direct Imaging Exposure Machine 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 Exposure Machine Production Value Comparison
 - 4.1.1 United States VS China: Laser Direct Imaging Exposure Machine Production

Value Comparison (2021 & 2025 & 2032)

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

4.2 United States VS China: Laser Direct Imaging Exposure Machine Production Comparison

4.2.1 United States VS China: Laser Direct Imaging Exposure Machine Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Laser Direct Imaging Exposure Machine Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Laser Direct Imaging Exposure Machine Consumption Comparison

4.3.1 United States VS China: Laser Direct Imaging Exposure Machine Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Laser Direct Imaging Exposure Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Laser Direct Imaging Exposure Machine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Laser Direct Imaging Exposure Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Laser Direct Imaging Exposure Machine Production (2021-2026)

4.5 China Based Laser Direct Imaging Exposure Machine Manufacturers and Market Share

4.5.1 China Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Laser Direct Imaging Exposure Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Laser Direct Imaging Exposure Machine Production (2021-2026)

4.6 Rest of World Based Laser Direct Imaging Exposure Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Laser Direct Imaging Exposure Machine 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 Exposure Machine Production by Type (2021-2032)

5.3.2 World Laser Direct Imaging Exposure Machine Production Value by Type (2021-2032)

5.3.3 World Laser Direct Imaging Exposure Machine Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RESOLUTION

6.1 World Laser Direct Imaging Exposure Machine 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 Exposure Machine Production by Resolution (2021-2032)

6.3.2 World Laser Direct Imaging Exposure Machine Production Value by Resolution (2021-2032)

6.3.3 World Laser Direct Imaging Exposure Machine Average Price by Resolution (2021-2032)

7 MARKET ANALYSIS BY MECHANICAL STRUCTURE

7.1 World Laser Direct Imaging Exposure Machine 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 Exposure Machine Production by Mechanical Structure (2021-2032)

7.3.2 World Laser Direct Imaging Exposure Machine Production Value by Mechanical Structure (2021-2032)

7.3.3 World Laser Direct Imaging Exposure Machine Average Price by Mechanical Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Laser Direct Imaging Exposure Machine 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 Oversized PCB

8.2.4 Display

8.2.5 Semiconductor

8.3 Market Segment by Application

8.3.1 World Laser Direct Imaging Exposure Machine Production by Application (2021-2032)

8.3.2 World Laser Direct Imaging Exposure Machine Production Value by Application (2021-2032)

8.3.3 World Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

9.1.4 KLA(Orbotech) Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

9.2.4 CFMEE Laser Direct Imaging Exposure Machine 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 Photech

9.3.1 YS Photech Details

9.3.2 YS Photech Major Business

9.3.3 YS Photech Laser Direct Imaging Exposure Machine Product and Services

9.3.4 YS Photech Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

9.4.4 SCREEN Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

9.5.4 ORC Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

9.6.4 Mikoptik Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
- 9.7.4 Aiscent Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.8.4 ADTech Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.9.4 Manz Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.10.4 Han's CNC Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.11.4 Anhui Disking Opto-Electric Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
- 9.12.4 Via Mechanics Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.13.4 Guangdong Siwo advanced equipment Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.14.4 Delphi Laser Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.15.4 Limata Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services
 - 9.16.4 TZTEK Laser Direct Imaging Exposure Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 TZTEK Recent Developments/Updates

9.16.6 TZTEK Competitive Strengths & Weaknesses

9.17 EV Group (EVG)

9.17.1 EV Group (EVG) Details

9.17.2 EV Group (EVG) Major Business

9.17.3 EV Group (EVG) Laser Direct Imaging Exposure Machine Product and Services

9.17.4 EV Group (EVG) Laser Direct Imaging Exposure Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 EV Group (EVG) Recent Developments/Updates

9.17.6 EV Group (EVG) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Laser Direct Imaging Exposure Machine Industry Chain

10.2 Laser Direct Imaging Exposure Machine Upstream Analysis

10.2.1 Laser Direct Imaging Exposure Machine Core Raw Materials

10.2.2 Main Manufacturers of Laser Direct Imaging Exposure Machine Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Laser Direct Imaging Exposure Machine Production Mode

10.6 Laser Direct Imaging Exposure Machine Procurement Model

10.7 Laser Direct Imaging Exposure Machine Industry Sales Model and Sales Channels

10.7.1 Laser Direct Imaging Exposure Machine Sales Model

10.7.2 Laser Direct Imaging Exposure Machine 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 Exposure Machine Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Laser Direct Imaging Exposure Machine Production Value by Region (2021-2026) & (USD Million)

Table 3. World Laser Direct Imaging Exposure Machine Production Value by Region (2027-2032) & (USD Million)

Table 4. World Laser Direct Imaging Exposure Machine Production Value Market Share by Region (2021-2026)

Table 5. World Laser Direct Imaging Exposure Machine Production Value Market Share by Region (2027-2032)

Table 6. World Laser Direct Imaging Exposure Machine Production by Region (2021-2026) & (Units)

Table 7. World Laser Direct Imaging Exposure Machine Production by Region (2027-2032) & (Units)

Table 8. World Laser Direct Imaging Exposure Machine Production Market Share by Region (2021-2026)

Table 9. World Laser Direct Imaging Exposure Machine Production Market Share by Region (2027-2032)

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

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

Table 12. Laser Direct Imaging Exposure Machine Major Market Trends

Table 13. World Laser Direct Imaging Exposure Machine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Laser Direct Imaging Exposure Machine Consumption by Region (2021-2026) & (Units)

Table 15. World Laser Direct Imaging Exposure Machine Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Laser Direct Imaging Exposure Machine Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Laser Direct Imaging Exposure Machine Producers in 2025

Table 18. World Laser Direct Imaging Exposure Machine Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Laser Direct Imaging Exposure Machine Producers in 2025

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

Table 21. Global Laser Direct Imaging Exposure Machine Company Evaluation Quadrant

Table 22. World Laser Direct Imaging Exposure Machine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Laser Direct Imaging Exposure Machine Production Site of Key Manufacturer

Table 24. Laser Direct Imaging Exposure Machine Market: Company Product Type Footprint

Table 25. Laser Direct Imaging Exposure Machine Market: Company Product Application Footprint

Table 26. Laser Direct Imaging Exposure Machine Competitive Factors

Table 27. Laser Direct Imaging Exposure Machine New Entrant and Capacity Expansion Plans

Table 28. Laser Direct Imaging Exposure Machine Mergers & Acquisitions Activity

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

Table 30. United States VS China Laser Direct Imaging Exposure Machine Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Laser Direct Imaging Exposure Machine Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Laser Direct Imaging Exposure Machine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Laser Direct Imaging Exposure Machine Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share (2021-2026)

Table 37. China Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (Province, Country)

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

Table 39. China Based Manufacturers Laser Direct Imaging Exposure Machine

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Laser Direct Imaging Exposure Machine Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share (2021-2026)

Table 42. Rest of World Based Laser Direct Imaging Exposure Machine Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share (2021-2026)

Table 47. World Laser Direct Imaging Exposure Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Laser Direct Imaging Exposure Machine Production by Type (2021-2026) & (Units)

Table 49. World Laser Direct Imaging Exposure Machine Production by Type (2027-2032) & (Units)

Table 50. World Laser Direct Imaging Exposure Machine Production Value by Type (2021-2026) & (USD Million)

Table 51. World Laser Direct Imaging Exposure Machine Production Value by Type (2027-2032) & (USD Million)

Table 52. World Laser Direct Imaging Exposure Machine Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Laser Direct Imaging Exposure Machine Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Laser Direct Imaging Exposure Machine Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Table 55. World Laser Direct Imaging Exposure Machine Production by Resolution (2021-2026) & (Units)

Table 56. World Laser Direct Imaging Exposure Machine Production by Resolution (2027-2032) & (Units)

Table 57. World Laser Direct Imaging Exposure Machine Production Value by Resolution (2021-2026) & (USD Million)

Table 58. World Laser Direct Imaging Exposure Machine Production Value by Resolution (2027-2032) & (USD Million)

Table 59. World Laser Direct Imaging Exposure Machine Average Price by Resolution (2021-2026) & (K US\$/Unit)

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

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

Table 62. World Laser Direct Imaging Exposure Machine Production by Mechanical Structure (2021-2026) & (Units)

Table 63. World Laser Direct Imaging Exposure Machine Production by Mechanical Structure (2027-2032) & (Units)

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

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

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

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

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

Table 69. World Laser Direct Imaging Exposure Machine Production by Application (2021-2026) & (Units)

Table 70. World Laser Direct Imaging Exposure Machine Production by Application (2027-2032) & (Units)

Table 71. World Laser Direct Imaging Exposure Machine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Laser Direct Imaging Exposure Machine Production Value by Application (2027-2032) & (USD Million)

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

Table 74. World Laser Direct Imaging Exposure Machine 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 Exposure Machine Product and Services

Table 78. KLA(Orbotech) Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services
Table 84. CFMEE Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services
Table 90. YS Photech Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services
Table 96. SCREEN Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services
Table 102. ORC Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services
Table 108. Mikoptik Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 114. Aiscent Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 120. ADTech Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 126. Manz Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 132. Han's CNC Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 138. Anhui Disking Opto-Electric Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 144. Via Mechanics Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 150. Guangdong Siwo advanced equipment Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 156. Delphi Laser Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 162. Limata Laser Direct Imaging Exposure Machine Production (Units), 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 Exposure Machine Product and Services

Table 168. TZTEK Laser Direct Imaging Exposure Machine Production (Units), 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. EV Group (EVG) Basic Information, Manufacturing Base and Competitors

Table 172. EV Group (EVG) Major Business

Table 173. EV Group (EVG) Laser Direct Imaging Exposure Machine Product and Services

Table 174. EV Group (EVG) Laser Direct Imaging Exposure Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. EV Group (EVG) Recent Developments/Updates

Table 176. EV Group (EVG) Competitive Strengths & Weaknesses

Table 177. Global Key Players of Laser Direct Imaging Exposure Machine Upstream (Raw Materials)

Table 178. Global Laser Direct Imaging Exposure Machine Typical Customers

Table 179. Laser Direct Imaging Exposure Machine Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Laser Direct Imaging Exposure Machine Picture

Figure 2. World Laser Direct Imaging Exposure Machine Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Laser Direct Imaging Exposure Machine Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Laser Direct Imaging Exposure Machine Production (2021-2032) & (Units)

Figure 5. World Laser Direct Imaging Exposure Machine Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Laser Direct Imaging Exposure Machine Production Value Market Share by Region (2021-2032)

Figure 7. World Laser Direct Imaging Exposure Machine Production Market Share by Region (2021-2032)

Figure 8. North America Laser Direct Imaging Exposure Machine Production (2021-2032) & (Units)

Figure 9. Europe Laser Direct Imaging Exposure Machine Production (2021-2032) & (Units)

Figure 10. China Laser Direct Imaging Exposure Machine Production (2021-2032) & (Units)

Figure 11. Japan Laser Direct Imaging Exposure Machine Production (2021-2032) & (Units)

Figure 12. Laser Direct Imaging Exposure Machine Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 15. World Laser Direct Imaging Exposure Machine Consumption Market Share by Region (2021-2032)

Figure 16. United States Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 17. China Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 18. Europe Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 19. Japan Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 20. South Korea Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 21. ASEAN Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

Figure 22. India Laser Direct Imaging Exposure Machine Consumption (2021-2032) & (Units)

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

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

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

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

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

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

Figure 29. United States Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share 2025

Figure 30. China Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Laser Direct Imaging Exposure Machine Production Market Share 2025

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

Figure 33. World Laser Direct Imaging Exposure Machine Production Value Market Share by Type in 2025

Figure 34. Polygon Mirror 365nm

Figure 35. DMD 405nm

Figure 36. World Laser Direct Imaging Exposure Machine Production Market Share by Type (2021-2032)

Figure 37. World Laser Direct Imaging Exposure Machine Production Value Market Share by Type (2021-2032)

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

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

Figure 40. World Laser Direct Imaging Exposure Machine 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 Exposure Machine Production Market Share by Resolution (2021-2032)

Figure 45. World Laser Direct Imaging Exposure Machine Production Value Market Share by Resolution (2021-2032)

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

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

Figure 48. World Laser Direct Imaging Exposure Machine Production Value Market Share by Mechanical Structure in 2025

Figure 49. Flatbed Platen

Figure 50. External Drum

Figure 51. World Laser Direct Imaging Exposure Machine Production Market Share by Mechanical Structure (2021-2032)

Figure 52. World Laser Direct Imaging Exposure Machine Production Value Market Share by Mechanical Structure (2021-2032)

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

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

Figure 55. World Laser Direct Imaging Exposure Machine Production Value Market Share by Application in 2025

Figure 56. HDI and Standard PCB

Figure 57. Thick-Copper and Ceramic PCB

Figure 58. Oversized PCB

Figure 59. Display

Figure 60. Semiconductor

Figure 61. World Laser Direct Imaging Exposure Machine Production Market Share by Application (2021-2032)

Figure 62. World Laser Direct Imaging Exposure Machine Production Value Market Share by Application (2021-2032)

Figure 63. World Laser Direct Imaging Exposure Machine Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. Laser Direct Imaging Exposure Machine Industry Chain

Figure 65. Laser Direct Imaging Exposure Machine Procurement Model

Figure 66. Laser Direct Imaging Exposure Machine Sales Model

Figure 67. Laser Direct Imaging Exposure Machine Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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