

# Global LED MOCVD Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global LED MOCVD Equipment market size is expected to reach \$ 238 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032). LED MOCVD Equipment is a core epitaxial manufacturing technology used to deposit compound semiconductor layers, such as GaN-, GaAs-, and InP-based materials, for LED production. It enables precise control of layer thickness, composition, and doping, which is essential for achieving high luminous efficiency, wavelength uniformity, and device yield. In industrial applications, LED-oriented MOCVD systems emphasize high throughput, stable and repeatable processes, advanced automation, and low cost of ownership to support large-scale LED manufacturing. In 2025, global LED MOCVD Equipment sales reached approximately 80 Units, with an average price of 1,980 K US\$/Units.

The key driver of the LED MOCVD Equipment is the growing demand for energy-efficient and high-performance lighting solutions across residential, commercial, and industrial applications. MOCVD technology enables precise growth of high-quality III-V compound semiconductor materials, which are essential for producing LEDs with superior brightness, efficiency, and color consistency. Additionally, the rising adoption of LEDs in automotive lighting, display backlighting, and next-generation communication technologies further accelerates the need for advanced MOCVD systems.

This report studies the global LED MOCVD Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LED MOCVD Equipment 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 LED MOCVD Equipment that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global LED MOCVD Equipment total production and demand, 2021-2032,  
(Units)

Global LED MOCVD Equipment total production value, 2021-2032, (USD Million)

Global LED MOCVD Equipment production by region & country, production, value,  
CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global LED MOCVD Equipment consumption by region & country, CAGR, 2021-2032 &  
(Units)

U.S. VS China: LED MOCVD Equipment domestic production, consumption, key  
domestic manufacturers and share

Global LED MOCVD Equipment production by manufacturer, production, price, value  
and market share 2021-2026, (USD Million) & (Units)

Global LED MOCVD Equipment production by Type, production, value, CAGR,  
2021-2032, (USD Million) & (Units)

Global LED MOCVD Equipment production by Application, production, value, CAGR,  
2021-2032, (USD Million) & (Units)

This report profiles key players in the global LED MOCVD Equipment 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 AIXTRON Technologies, Advanced Micro-  
Fabrication Equipment, Taiyo Nippon Sanso, Veeco Instruments, NuFlare Technology,  
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 LED MOCVD Equipment 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 LED MOCVD Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global LED MOCVD Equipment Market, Segmentation by Type:

GaN-based MOCVD

GaAs/InP-based MOCVD

#### Global LED MOCVD Equipment Market, Segmentation by Wafer Size:

2-inch

4-inch

6-inch

8-inch

#### Global LED MOCVD Equipment Market, Segmentation by Purpose:

Mass Production

R&D

#### Global LED MOCVD Equipment Market, Segmentation by Application:

Lighting & General-purpose LED

Display & High-end LED

**Companies Profiled:**

AIXTRON Technologies

Advanced Micro-Fabrication Equipment

Taiyo Nippon Sanso

Veeco Instruments

NuFlare Technology

**Key Questions Answered:**

1. How big is the global LED MOCVD Equipment market?
2. What is the demand of the global LED MOCVD Equipment market?
3. What is the year over year growth of the global LED MOCVD Equipment market?
4. What is the production and production value of the global LED MOCVD Equipment market?
5. Who are the key producers in the global LED MOCVD Equipment market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World LED MOCVD Equipment Demand (2021-2032)
- 2.2 World LED MOCVD Equipment Consumption by Region
  - 2.2.1 World LED MOCVD Equipment Consumption by Region (2021-2026)
  - 2.2.2 World LED MOCVD Equipment Consumption Forecast by Region (2027-2032)
- 2.3 United States LED MOCVD Equipment Consumption (2021-2032)
- 2.4 China LED MOCVD Equipment Consumption (2021-2032)
- 2.5 Europe LED MOCVD Equipment Consumption (2021-2032)
- 2.6 Japan LED MOCVD Equipment Consumption (2021-2032)
- 2.7 South Korea LED MOCVD Equipment Consumption (2021-2032)
- 2.8 ASEAN LED MOCVD Equipment Consumption (2021-2032)
- 2.9 India LED MOCVD Equipment Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World LED MOCVD Equipment Production Value by Manufacturer (2021-2026)

- 3.2 World LED MOCVD Equipment Production by Manufacturer (2021-2026)
- 3.3 World LED MOCVD Equipment Average Price by Manufacturer (2021-2026)
- 3.4 LED MOCVD Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global LED MOCVD Equipment Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for LED MOCVD Equipment in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for LED MOCVD Equipment in 2025
- 3.6 LED MOCVD Equipment Market: Overall Company Footprint Analysis
  - 3.6.1 LED MOCVD Equipment Market: Region Footprint
  - 3.6.2 LED MOCVD Equipment Market: Company Product Type Footprint
  - 3.6.3 LED MOCVD Equipment 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: LED MOCVD Equipment Production Value Comparison
  - 4.1.1 United States VS China: LED MOCVD Equipment Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: LED MOCVD Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: LED MOCVD Equipment Production Comparison
  - 4.2.1 United States VS China: LED MOCVD Equipment Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: LED MOCVD Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: LED MOCVD Equipment Consumption Comparison
  - 4.3.1 United States VS China: LED MOCVD Equipment Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: LED MOCVD Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based LED MOCVD Equipment Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers LED MOCVD Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers LED MOCVD Equipment Production (2021-2026)

4.5 China Based LED MOCVD Equipment Manufacturers and Market Share

4.5.1 China Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers LED MOCVD Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers LED MOCVD Equipment Production (2021-2026)

4.6 Rest of World Based LED MOCVD Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers LED MOCVD Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers LED MOCVD Equipment Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World LED MOCVD Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 GaN-based MOCVD

5.2.2 GaAs/InP-based MOCVD

5.3 Market Segment by Type

5.3.1 World LED MOCVD Equipment Production by Type (2021-2032)

5.3.2 World LED MOCVD Equipment Production Value by Type (2021-2032)

5.3.3 World LED MOCVD Equipment Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY WAFER SIZE**

6.1 World LED MOCVD Equipment Market Size Overview by Wafer Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Wafer Size

6.2.1 2-inch

6.2.2 4-inch

6.2.3 6-inch

6.2.4 8-inch

### 6.3 Market Segment by Wafer Size

6.3.1 World LED MOCVD Equipment Production by Wafer Size (2021-2032)

6.3.2 World LED MOCVD Equipment Production Value by Wafer Size (2021-2032)

6.3.3 World LED MOCVD Equipment Average Price by Wafer Size (2021-2032)

## 7 MARKET ANALYSIS BY PURPOSE

7.1 World LED MOCVD Equipment Market Size Overview by Purpose: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Purpose

7.2.1 Mass Production

7.2.2 R&D

7.3 Market Segment by Purpose

7.3.1 World LED MOCVD Equipment Production by Purpose (2021-2032)

7.3.2 World LED MOCVD Equipment Production Value by Purpose (2021-2032)

7.3.3 World LED MOCVD Equipment Average Price by Purpose (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World LED MOCVD Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Lighting & General-purpose LED

8.2.2 Display & High-end LED

8.3 Market Segment by Application

8.3.1 World LED MOCVD Equipment Production by Application (2021-2032)

8.3.2 World LED MOCVD Equipment Production Value by Application (2021-2032)

8.3.3 World LED MOCVD Equipment Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 AIXTRON Technologies

9.1.1 AIXTRON Technologies Details

9.1.2 AIXTRON Technologies Major Business

9.1.3 AIXTRON Technologies LED MOCVD Equipment Product and Services

9.1.4 AIXTRON Technologies LED MOCVD Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 AIXTRON Technologies Recent Developments/Updates

- 9.1.6 AIXTRON Technologies Competitive Strengths & Weaknesses
- 9.2 Advanced Micro-Fabrication Equipment
  - 9.2.1 Advanced Micro-Fabrication Equipment Details
  - 9.2.2 Advanced Micro-Fabrication Equipment Major Business
  - 9.2.3 Advanced Micro-Fabrication Equipment LED MOCVD Equipment Product and Services
  - 9.2.4 Advanced Micro-Fabrication Equipment LED MOCVD Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Advanced Micro-Fabrication Equipment Recent Developments/Updates
  - 9.2.6 Advanced Micro-Fabrication Equipment Competitive Strengths & Weaknesses
- 9.3 Taiyo Nippon Sanso
  - 9.3.1 Taiyo Nippon Sanso Details
  - 9.3.2 Taiyo Nippon Sanso Major Business
  - 9.3.3 Taiyo Nippon Sanso LED MOCVD Equipment Product and Services
  - 9.3.4 Taiyo Nippon Sanso LED MOCVD Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Taiyo Nippon Sanso Recent Developments/Updates
  - 9.3.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses
- 9.4 Veeco Instruments
  - 9.4.1 Veeco Instruments Details
  - 9.4.2 Veeco Instruments Major Business
  - 9.4.3 Veeco Instruments LED MOCVD Equipment Product and Services
  - 9.4.4 Veeco Instruments LED MOCVD Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Veeco Instruments Recent Developments/Updates
  - 9.4.6 Veeco Instruments Competitive Strengths & Weaknesses
- 9.5 NuFlare Technology
  - 9.5.1 NuFlare Technology Details
  - 9.5.2 NuFlare Technology Major Business
  - 9.5.3 NuFlare Technology LED MOCVD Equipment Product and Services
  - 9.5.4 NuFlare Technology LED MOCVD Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 NuFlare Technology Recent Developments/Updates
  - 9.5.6 NuFlare Technology Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 LED MOCVD Equipment Industry Chain
- 10.2 LED MOCVD Equipment Upstream Analysis

- 10.2.1 LED MOCVD Equipment Core Raw Materials
- 10.2.2 Main Manufacturers of LED MOCVD Equipment Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 LED MOCVD Equipment Production Mode
- 10.6 LED MOCVD Equipment Procurement Model
- 10.7 LED MOCVD Equipment Industry Sales Model and Sales Channels
  - 10.7.1 LED MOCVD Equipment Sales Model
  - 10.7.2 LED MOCVD Equipment 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 LED MOCVD Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World LED MOCVD Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World LED MOCVD Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World LED MOCVD Equipment Production Value Market Share by Region (2021-2026)

Table 5. World LED MOCVD Equipment Production Value Market Share by Region (2027-2032)

Table 6. World LED MOCVD Equipment Production by Region (2021-2026) & (Units)

Table 7. World LED MOCVD Equipment Production by Region (2027-2032) & (Units)

Table 8. World LED MOCVD Equipment Production Market Share by Region (2021-2026)

Table 9. World LED MOCVD Equipment Production Market Share by Region (2027-2032)

Table 10. World LED MOCVD Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World LED MOCVD Equipment Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. LED MOCVD Equipment Major Market Trends

Table 13. World LED MOCVD Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World LED MOCVD Equipment Consumption by Region (2021-2026) & (Units)

Table 15. World LED MOCVD Equipment Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World LED MOCVD Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key LED MOCVD Equipment Producers in 2025

Table 18. World LED MOCVD Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key LED MOCVD Equipment Producers in 2025

Table 20. World LED MOCVD Equipment Average Price by Manufacturer (2021-2026)

& (K US\$/Unit)

Table 21. Global LED MOCVD Equipment Company Evaluation Quadrant

Table 22. World LED MOCVD Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and LED MOCVD Equipment Production Site of Key Manufacturer

Table 24. LED MOCVD Equipment Market: Company Product Type Footprint

Table 25. LED MOCVD Equipment Market: Company Product Application Footprint

Table 26. LED MOCVD Equipment Competitive Factors

Table 27. LED MOCVD Equipment New Entrant and Capacity Expansion Plans

Table 28. LED MOCVD Equipment Mergers & Acquisitions Activity

Table 29. United States VS China LED MOCVD Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China LED MOCVD Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China LED MOCVD Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers LED MOCVD Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers LED MOCVD Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers LED MOCVD Equipment Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers LED MOCVD Equipment Production Market Share (2021-2026)

Table 37. China Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers LED MOCVD Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers LED MOCVD Equipment Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers LED MOCVD Equipment Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers LED MOCVD Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based LED MOCVD Equipment Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers LED MOCVD Equipment Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers LED MOCVD Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers LED MOCVD Equipment Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers LED MOCVD Equipment Production Market Share (2021-2026)

Table 47. World LED MOCVD Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World LED MOCVD Equipment Production by Type (2021-2026) & (Units)

Table 49. World LED MOCVD Equipment Production by Type (2027-2032) & (Units)

Table 50. World LED MOCVD Equipment Production Value by Type (2021-2026) & (USD Million)

Table 51. World LED MOCVD Equipment Production Value by Type (2027-2032) & (USD Million)

Table 52. World LED MOCVD Equipment Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World LED MOCVD Equipment Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World LED MOCVD Equipment Production Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Table 55. World LED MOCVD Equipment Production by Wafer Size (2021-2026) & (Units)

Table 56. World LED MOCVD Equipment Production by Wafer Size (2027-2032) & (Units)

Table 57. World LED MOCVD Equipment Production Value by Wafer Size (2021-2026) & (USD Million)

Table 58. World LED MOCVD Equipment Production Value by Wafer Size (2027-2032) & (USD Million)

Table 59. World LED MOCVD Equipment Average Price by Wafer Size (2021-2026) & (K US\$/Unit)

Table 60. World LED MOCVD Equipment Average Price by Wafer Size (2027-2032) & (K US\$/Unit)

Table 61. World LED MOCVD Equipment Production Value by Purpose, (USD Million), 2021 & 2025 & 2032

Table 62. World LED MOCVD Equipment Production by Purpose (2021-2026) & (Units)

Table 63. World LED MOCVD Equipment Production by Purpose (2027-2032) & (Units)

Table 64. World LED MOCVD Equipment Production Value by Purpose (2021-2026) &

(USD Million)

Table 65. World LED MOCVD Equipment Production Value by Purpose (2027-2032) & (USD Million)

Table 66. World LED MOCVD Equipment Average Price by Purpose (2021-2026) & (K US\$/Unit)

Table 67. World LED MOCVD Equipment Average Price by Purpose (2027-2032) & (K US\$/Unit)

Table 68. World LED MOCVD Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World LED MOCVD Equipment Production by Application (2021-2026) & (Units)

Table 70. World LED MOCVD Equipment Production by Application (2027-2032) & (Units)

Table 71. World LED MOCVD Equipment Production Value by Application (2021-2026) & (USD Million)

Table 72. World LED MOCVD Equipment Production Value by Application (2027-2032) & (USD Million)

Table 73. World LED MOCVD Equipment Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World LED MOCVD Equipment Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. AIXTRON Technologies Basic Information, Manufacturing Base and Competitors

Table 76. AIXTRON Technologies Major Business

Table 77. AIXTRON Technologies LED MOCVD Equipment Product and Services

Table 78. AIXTRON Technologies LED MOCVD Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. AIXTRON Technologies Recent Developments/Updates

Table 80. AIXTRON Technologies Competitive Strengths & Weaknesses

Table 81. Advanced Micro-Fabrication Equipment Basic Information, Manufacturing Base and Competitors

Table 82. Advanced Micro-Fabrication Equipment Major Business

Table 83. Advanced Micro-Fabrication Equipment LED MOCVD Equipment Product and Services

Table 84. Advanced Micro-Fabrication Equipment LED MOCVD Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Advanced Micro-Fabrication Equipment Recent Developments/Updates

Table 86. Advanced Micro-Fabrication Equipment Competitive Strengths & Weaknesses

Table 87. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors

Table 88. Taiyo Nippon Sanso Major Business

Table 89. Taiyo Nippon Sanso LED MOCVD Equipment Product and Services

Table 90. Taiyo Nippon Sanso LED MOCVD Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Taiyo Nippon Sanso Recent Developments/Updates

Table 92. Taiyo Nippon Sanso Competitive Strengths & Weaknesses

Table 93. Veeco Instruments Basic Information, Manufacturing Base and Competitors

Table 94. Veeco Instruments Major Business

Table 95. Veeco Instruments LED MOCVD Equipment Product and Services

Table 96. Veeco Instruments LED MOCVD Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Veeco Instruments Recent Developments/Updates

Table 98. Veeco Instruments Competitive Strengths & Weaknesses

Table 99. NuFlare Technology Basic Information, Manufacturing Base and Competitors

Table 100. NuFlare Technology Major Business

Table 101. NuFlare Technology LED MOCVD Equipment Product and Services

Table 102. NuFlare Technology LED MOCVD Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. NuFlare Technology Recent Developments/Updates

Table 104. NuFlare Technology Competitive Strengths & Weaknesses

Table 105. Global Key Players of LED MOCVD Equipment Upstream (Raw Materials)

Table 106. Global LED MOCVD Equipment Typical Customers

Table 107. LED MOCVD Equipment Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. LED MOCVD Equipment Picture
- Figure 2. World LED MOCVD Equipment Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World LED MOCVD Equipment Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World LED MOCVD Equipment Production (2021-2032) & (Units)
- Figure 5. World LED MOCVD Equipment Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World LED MOCVD Equipment Production Value Market Share by Region (2021-2032)
- Figure 7. World LED MOCVD Equipment Production Market Share by Region (2021-2032)
- Figure 8. North America LED MOCVD Equipment Production (2021-2032) & (Units)
- Figure 9. Europe LED MOCVD Equipment Production (2021-2032) & (Units)
- Figure 10. China LED MOCVD Equipment Production (2021-2032) & (Units)
- Figure 11. Japan LED MOCVD Equipment Production (2021-2032) & (Units)
- Figure 12. LED MOCVD Equipment Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 15. World LED MOCVD Equipment Consumption Market Share by Region (2021-2032)
- Figure 16. United States LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 17. China LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 18. Europe LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 19. Japan LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 20. South Korea LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 21. ASEAN LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 22. India LED MOCVD Equipment Consumption (2021-2032) & (Units)
- Figure 23. Producer Shipments of LED MOCVD Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for LED MOCVD Equipment Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for LED MOCVD Equipment Markets in 2025
- Figure 26. United States VS China: LED MOCVD Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: LED MOCVD Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: LED MOCVD Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers LED MOCVD Equipment Production Market Share 2025

Figure 30. China Based Manufacturers LED MOCVD Equipment Production Market Share 2025

Figure 31. Rest of World Based Manufacturers LED MOCVD Equipment Production Market Share 2025

Figure 32. World LED MOCVD Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World LED MOCVD Equipment Production Value Market Share by Type in 2025

Figure 34. GaN-based MOCVD

Figure 35. GaAs/InP-based MOCVD

Figure 36. World LED MOCVD Equipment Production Market Share by Type (2021-2032)

Figure 37. World LED MOCVD Equipment Production Value Market Share by Type (2021-2032)

Figure 38. World LED MOCVD Equipment Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World LED MOCVD Equipment Production Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Figure 40. World LED MOCVD Equipment Production Value Market Share by Wafer Size in 2025

Figure 41. 2-inch

Figure 42. 4-inch

Figure 43. 6-inch

Figure 44. 8-inch

Figure 45. World LED MOCVD Equipment Production Market Share by Wafer Size (2021-2032)

Figure 46. World LED MOCVD Equipment Production Value Market Share by Wafer Size (2021-2032)

Figure 47. World LED MOCVD Equipment Average Price by Wafer Size (2021-2032) & (K US\$/Unit)

Figure 48. World LED MOCVD Equipment Production Value by Purpose, (USD Million), 2021 & 2025 & 2032

Figure 49. World LED MOCVD Equipment Production Value Market Share by Purpose

in 2025

Figure 50. Mass Production

Figure 51. R&D

Figure 52. World LED MOCVD Equipment Production Market Share by Purpose (2021-2032)

Figure 53. World LED MOCVD Equipment Production Value Market Share by Purpose (2021-2032)

Figure 54. World LED MOCVD Equipment Average Price by Purpose (2021-2032) & (K US\$/Unit)

Figure 55. World LED MOCVD Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World LED MOCVD Equipment Production Value Market Share by Application in 2025

Figure 57. Lighting & General-purpose LED

Figure 58. Display & High-end LED

Figure 59. World LED MOCVD Equipment Production Market Share by Application (2021-2032)

Figure 60. World LED MOCVD Equipment Production Value Market Share by Application (2021-2032)

Figure 61. World LED MOCVD Equipment Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 62. LED MOCVD Equipment Industry Chain

Figure 63. LED MOCVD Equipment Procurement Model

Figure 64. LED MOCVD Equipment Sales Model

Figure 65. LED MOCVD Equipment Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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