

Global LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global LiDAR market size is expected to reach \$ 11830 million by 2032, rising at a market growth of 21.2% CAGR during the forecast period (2026-2032).

Lidar is a product of the combination of laser technology and radar technology. It is composed of transmitters, antennas, receivers, tracking frames and information processing. It can measure target position (distance and angle), movement status (speed, vibration, and attitude) And the shape has become one of the necessary devices for advanced assisted driving and intelligent driving. It is used in the automotive industry or other ground motor vehicles, Rail Transit, and radar in the surveying and mapping industry.

The leading lidar companies mainly include Hesai Technology, RoboSense, Seyond, Continental, Ouster, Hexagon AB, Trimble, Sick AG, and Valeo. The market share of the top five companies in the world is close to 32.63%.

In terms of lidar types, there are mechanical lidar and solid-state laser (including semi-solid) radar. Mechanical lidar is large in size, high in accuracy, high in cost, and can rotate 360 degrees; while solid-state lidar is low in cost. In 2023, the market will still be dominated by mechanical lidar, with the market size reaching US\$1899 million. We estimate that solid-state/semi-solid lidar will gradually occupy the market in the next few years, and by 2030, the market share of solid-state/semi-solid lidar will exceed 48%.

As far as the downstream segments of lidar are concerned, this report subdivides the industry into: Automotive, robotics, smart infrastructure, rail transportation, construction, mining and agriculture, and others (UAV, aerospace and defense). Among them, lidar is widely used in the automotive industry (ADAS and driverless driving), and the market size will reach US\$1074 million in 2023. We expect that automobiles will remain the main market for lidar in the next few years.

This report studies the global LiDAR production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global LiDAR total production and demand, 2021-2032, (K Units)

Global LiDAR total production value, 2021-2032, (USD Million)

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

Global LiDAR consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: LiDAR domestic production, consumption, key domestic manufacturers and share

Global LiDAR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global LiDAR 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 Hesai Technology, RoboSense, Seyond, Continental, Ouster, Hexagon AB, Trimble, Sick AG, Valeo, Huawei, 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 LiDAR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LiDAR Market, Segmentation by Type:

Mechanical LiDAR

Solid State LiDAR

Global LiDAR Market, Segmentation by Application:

Automotive

Robotics

Smart Infrastructure

Rail

Construction, Mining & Agriculture

Others

Companies Profiled:

Hesai Technology

RoboSense

Seyond

Continental

Ouster

Hexagon AB

Trimble

Sick AG

Valeo

Huawei

Topcon

Vaisala

Nanjing Movelaser

Hokuyo Automatic

Leishen Intelligent System

Luminar Technologies

Innoviz

Cepton (Koito)

VanJee Technology

Pepperl+Fuchs

AEVA

LeddarTech

Livox (DJI)

Quanergy

MicroVision

SureStar

Benewake

HIH

Hangzhou OLE-Systems Co., Ltd

Mitsubishi Electric

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World LiDAR Production Value by Manufacturer (2021-2026)

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

- 4.5.1 China Based LiDAR Manufacturers, Headquarters and Production Site (Province, Country)
- 4.5.2 China Based Manufacturers LiDAR Production Value (2021-2026)
- 4.5.3 China Based Manufacturers LiDAR Production (2021-2026)
- 4.6 Rest of World Based LiDAR Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based LiDAR Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers LiDAR Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers LiDAR Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World LiDAR Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Mechanical LiDAR
 - 5.2.2 Solid State LiDAR
- 5.3 Market Segment by Type
 - 5.3.1 World LiDAR Production by Type (2021-2032)
 - 5.3.2 World LiDAR Production Value by Type (2021-2032)
 - 5.3.3 World LiDAR Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

- 6.1 World LiDAR Market Size Overview by Application: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Application
 - 6.2.1 Automotive
 - 6.2.2 Robotics
 - 6.2.3 Smart Infrastructure
 - 6.2.4 Rail
 - 6.2.5 Construction, Mining & Agriculture
 - 6.2.6 Others
- 6.3 Market Segment by Application
 - 6.3.1 World LiDAR Production by Application (2021-2032)
 - 6.3.2 World LiDAR Production Value by Application (2021-2032)
 - 6.3.3 World LiDAR Average Price by Application (2021-2032)

7 COMPANY PROFILES

- 7.1 Hesai Technology

- 7.1.1 Hesai Technology Details
- 7.1.2 Hesai Technology Major Business
- 7.1.3 Hesai Technology LiDAR Product and Services
- 7.1.4 Hesai Technology LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.1.5 Hesai Technology Recent Developments/Updates
- 7.1.6 Hesai Technology Competitive Strengths & Weaknesses
- 7.2 RoboSense
 - 7.2.1 RoboSense Details
 - 7.2.2 RoboSense Major Business
 - 7.2.3 RoboSense LiDAR Product and Services
 - 7.2.4 RoboSense LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.2.5 RoboSense Recent Developments/Updates
 - 7.2.6 RoboSense Competitive Strengths & Weaknesses
- 7.3 Seyond
 - 7.3.1 Seyond Details
 - 7.3.2 Seyond Major Business
 - 7.3.3 Seyond LiDAR Product and Services
 - 7.3.4 Seyond LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.3.5 Seyond Recent Developments/Updates
 - 7.3.6 Seyond Competitive Strengths & Weaknesses
- 7.4 Continental
 - 7.4.1 Continental Details
 - 7.4.2 Continental Major Business
 - 7.4.3 Continental LiDAR Product and Services
 - 7.4.4 Continental LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.4.5 Continental Recent Developments/Updates
 - 7.4.6 Continental Competitive Strengths & Weaknesses
- 7.5 Ouster
 - 7.5.1 Ouster Details
 - 7.5.2 Ouster Major Business
 - 7.5.3 Ouster LiDAR Product and Services
 - 7.5.4 Ouster LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.5.5 Ouster Recent Developments/Updates
 - 7.5.6 Ouster Competitive Strengths & Weaknesses

7.6 Hexagon AB

7.6.1 Hexagon AB Details

7.6.2 Hexagon AB Major Business

7.6.3 Hexagon AB LiDAR Product and Services

7.6.4 Hexagon AB LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 Hexagon AB Recent Developments/Updates

7.6.6 Hexagon AB Competitive Strengths & Weaknesses

7.7 Trimble

7.7.1 Trimble Details

7.7.2 Trimble Major Business

7.7.3 Trimble LiDAR Product and Services

7.7.4 Trimble LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Trimble Recent Developments/Updates

7.7.6 Trimble Competitive Strengths & Weaknesses

7.8 Sick AG

7.8.1 Sick AG Details

7.8.2 Sick AG Major Business

7.8.3 Sick AG LiDAR Product and Services

7.8.4 Sick AG LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.8.5 Sick AG Recent Developments/Updates

7.8.6 Sick AG Competitive Strengths & Weaknesses

7.9 Valeo

7.9.1 Valeo Details

7.9.2 Valeo Major Business

7.9.3 Valeo LiDAR Product and Services

7.9.4 Valeo LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.9.5 Valeo Recent Developments/Updates

7.9.6 Valeo Competitive Strengths & Weaknesses

7.10 Huawei

7.10.1 Huawei Details

7.10.2 Huawei Major Business

7.10.3 Huawei LiDAR Product and Services

7.10.4 Huawei LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.10.5 Huawei Recent Developments/Updates

- 7.10.6 Huawei Competitive Strengths & Weaknesses
- 7.11 Topcon
 - 7.11.1 Topcon Details
 - 7.11.2 Topcon Major Business
 - 7.11.3 Topcon LiDAR Product and Services
 - 7.11.4 Topcon LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.11.5 Topcon Recent Developments/Updates
 - 7.11.6 Topcon Competitive Strengths & Weaknesses
- 7.12 Vaisala
 - 7.12.1 Vaisala Details
 - 7.12.2 Vaisala Major Business
 - 7.12.3 Vaisala LiDAR Product and Services
 - 7.12.4 Vaisala LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.12.5 Vaisala Recent Developments/Updates
 - 7.12.6 Vaisala Competitive Strengths & Weaknesses
- 7.13 Nanjing Movelaser
 - 7.13.1 Nanjing Movelaser Details
 - 7.13.2 Nanjing Movelaser Major Business
 - 7.13.3 Nanjing Movelaser LiDAR Product and Services
 - 7.13.4 Nanjing Movelaser LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.13.5 Nanjing Movelaser Recent Developments/Updates
 - 7.13.6 Nanjing Movelaser Competitive Strengths & Weaknesses
- 7.14 Hokuyo Automatic
 - 7.14.1 Hokuyo Automatic Details
 - 7.14.2 Hokuyo Automatic Major Business
 - 7.14.3 Hokuyo Automatic LiDAR Product and Services
 - 7.14.4 Hokuyo Automatic LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.14.5 Hokuyo Automatic Recent Developments/Updates
 - 7.14.6 Hokuyo Automatic Competitive Strengths & Weaknesses
- 7.15 Leishen Intelligent System
 - 7.15.1 Leishen Intelligent System Details
 - 7.15.2 Leishen Intelligent System Major Business
 - 7.15.3 Leishen Intelligent System LiDAR Product and Services
 - 7.15.4 Leishen Intelligent System LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 7.15.5 Leishen Intelligent System Recent Developments/Updates
- 7.15.6 Leishen Intelligent System Competitive Strengths & Weaknesses
- 7.16 Luminar Technologies
 - 7.16.1 Luminar Technologies Details
 - 7.16.2 Luminar Technologies Major Business
 - 7.16.3 Luminar Technologies LiDAR Product and Services
 - 7.16.4 Luminar Technologies LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.16.5 Luminar Technologies Recent Developments/Updates
 - 7.16.6 Luminar Technologies Competitive Strengths & Weaknesses
- 7.17 Innoviz
 - 7.17.1 Innoviz Details
 - 7.17.2 Innoviz Major Business
 - 7.17.3 Innoviz LiDAR Product and Services
 - 7.17.4 Innoviz LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.17.5 Innoviz Recent Developments/Updates
 - 7.17.6 Innoviz Competitive Strengths & Weaknesses
- 7.18 Cepton (Koito)
 - 7.18.1 Cepton (Koito) Details
 - 7.18.2 Cepton (Koito) Major Business
 - 7.18.3 Cepton (Koito) LiDAR Product and Services
 - 7.18.4 Cepton (Koito) LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.18.5 Cepton (Koito) Recent Developments/Updates
 - 7.18.6 Cepton (Koito) Competitive Strengths & Weaknesses
- 7.19 VanJee Technology
 - 7.19.1 VanJee Technology Details
 - 7.19.2 VanJee Technology Major Business
 - 7.19.3 VanJee Technology LiDAR Product and Services
 - 7.19.4 VanJee Technology LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.19.5 VanJee Technology Recent Developments/Updates
 - 7.19.6 VanJee Technology Competitive Strengths & Weaknesses
- 7.20 Pepperl+Fuchs
 - 7.20.1 Pepperl+Fuchs Details
 - 7.20.2 Pepperl+Fuchs Major Business
 - 7.20.3 Pepperl+Fuchs LiDAR Product and Services
 - 7.20.4 Pepperl+Fuchs LiDAR Production, Price, Value, Gross Margin and Market

Share (2021-2026)

7.20.5 Pepperl+Fuchs Recent Developments/Updates

7.20.6 Pepperl+Fuchs Competitive Strengths & Weaknesses

7.21 AEVA

7.21.1 AEVA Details

7.21.2 AEVA Major Business

7.21.3 AEVA LiDAR Product and Services

7.21.4 AEVA LiDAR Production, Price, Value, Gross Margin and Market Share

(2021-2026)

7.21.5 AEVA Recent Developments/Updates

7.21.6 AEVA Competitive Strengths & Weaknesses

7.22 LeddarTech

7.22.1 LeddarTech Details

7.22.2 LeddarTech Major Business

7.22.3 LeddarTech LiDAR Product and Services

7.22.4 LeddarTech LiDAR Production, Price, Value, Gross Margin and Market Share

(2021-2026)

7.22.5 LeddarTech Recent Developments/Updates

7.22.6 LeddarTech Competitive Strengths & Weaknesses

7.23 Livox (DJI)

7.23.1 Livox (DJI) Details

7.23.2 Livox (DJI) Major Business

7.23.3 Livox (DJI) LiDAR Product and Services

7.23.4 Livox (DJI) LiDAR Production, Price, Value, Gross Margin and Market Share

(2021-2026)

7.23.5 Livox (DJI) Recent Developments/Updates

7.23.6 Livox (DJI) Competitive Strengths & Weaknesses

7.24 Quanergy

7.24.1 Quanergy Details

7.24.2 Quanergy Major Business

7.24.3 Quanergy LiDAR Product and Services

7.24.4 Quanergy LiDAR Production, Price, Value, Gross Margin and Market Share

(2021-2026)

7.24.5 Quanergy Recent Developments/Updates

7.24.6 Quanergy Competitive Strengths & Weaknesses

7.25 MicroVision

7.25.1 MicroVision Details

7.25.2 MicroVision Major Business

7.25.3 MicroVision LiDAR Product and Services

7.25.4 MicroVision LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.25.5 MicroVision Recent Developments/Updates

7.25.6 MicroVision Competitive Strengths & Weaknesses

7.26 SureStar

7.26.1 SureStar Details

7.26.2 SureStar Major Business

7.26.3 SureStar LiDAR Product and Services

7.26.4 SureStar LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.26.5 SureStar Recent Developments/Updates

7.26.6 SureStar Competitive Strengths & Weaknesses

7.27 Benewake

7.27.1 Benewake Details

7.27.2 Benewake Major Business

7.27.3 Benewake LiDAR Product and Services

7.27.4 Benewake LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.27.5 Benewake Recent Developments/Updates

7.27.6 Benewake Competitive Strengths & Weaknesses

7.28 HIH

7.28.1 HIH Details

7.28.2 HIH Major Business

7.28.3 HIH LiDAR Product and Services

7.28.4 HIH LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.28.5 HIH Recent Developments/Updates

7.28.6 HIH Competitive Strengths & Weaknesses

7.29 Hangzhou OLE-Systems Co., Ltd

7.29.1 Hangzhou OLE-Systems Co., Ltd Details

7.29.2 Hangzhou OLE-Systems Co., Ltd Major Business

7.29.3 Hangzhou OLE-Systems Co., Ltd LiDAR Product and Services

7.29.4 Hangzhou OLE-Systems Co., Ltd LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.29.5 Hangzhou OLE-Systems Co., Ltd Recent Developments/Updates

7.29.6 Hangzhou OLE-Systems Co., Ltd Competitive Strengths & Weaknesses

7.30 Mitsubishi Electric

7.30.1 Mitsubishi Electric Details

7.30.2 Mitsubishi Electric Major Business

- 7.30.3 Mitsubishi Electric LiDAR Product and Services
- 7.30.4 Mitsubishi Electric LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.30.5 Mitsubishi Electric Recent Developments/Updates
- 7.30.6 Mitsubishi Electric Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 LiDAR Industry Chain
- 8.2 LiDAR Upstream Analysis
 - 8.2.1 LiDAR Core Raw Materials
 - 8.2.2 Main Manufacturers of LiDAR Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 LiDAR Production Mode
- 8.6 LiDAR Procurement Model
- 8.7 LiDAR Industry Sales Model and Sales Channels
 - 8.7.1 LiDAR Sales Model
 - 8.7.2 LiDAR Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World LiDAR Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

Table 4. World LiDAR Production Value Market Share by Region (2021-2026)

Table 5. World LiDAR Production Value Market Share by Region (2027-2032)

Table 6. World LiDAR Production by Region (2021-2026) & (K Units)

Table 7. World LiDAR Production by Region (2027-2032) & (K Units)

Table 8. World LiDAR Production Market Share by Region (2021-2026)

Table 9. World LiDAR Production Market Share by Region (2027-2032)

Table 10. World LiDAR Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World LiDAR Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. LiDAR Major Market Trends

Table 13. World LiDAR Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World LiDAR Consumption by Region (2021-2026) & (K Units)

Table 15. World LiDAR Consumption Forecast by Region (2027-2032) & (K Units)

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

Table 17. Production Value Market Share of Key LiDAR Producers in 2025

Table 18. World LiDAR Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key LiDAR Producers in 2025

Table 20. World LiDAR Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global LiDAR Company Evaluation Quadrant

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

Table 23. Head Office and LiDAR Production Site of Key Manufacturer

Table 24. LiDAR Market: Company Product Type Footprint

Table 25. LiDAR Market: Company Product Application Footprint

Table 26. LiDAR Competitive Factors

Table 27. LiDAR New Entrant and Capacity Expansion Plans

Table 28. LiDAR Mergers & Acquisitions Activity

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

Table 30. United States VS China LiDAR Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China LiDAR Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based LiDAR Manufacturers, Headquarters and Production Site (States, Country)

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

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

Table 35. United States Based Manufacturers LiDAR Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers LiDAR Production Market Share (2021-2026)

Table 37. China Based LiDAR Manufacturers, Headquarters and Production Site (Province, Country)

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

Table 39. China Based Manufacturers LiDAR Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers LiDAR Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers LiDAR Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers LiDAR Production, (2021-2026) & (K Units)

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

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

Table 48. World LiDAR Production by Type (2021-2026) & (K Units)

Table 49. World LiDAR Production by Type (2027-2032) & (K Units)

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

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

Table 52. World LiDAR Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World LiDAR Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World LiDAR Production Value by Application, (USD Million), 2021 & 2025 & 2032

- Table 55. World LiDAR Production by Application (2021-2026) & (K Units)
- Table 56. World LiDAR Production by Application (2027-2032) & (K Units)
- Table 57. World LiDAR Production Value by Application (2021-2026) & (USD Million)
- Table 58. World LiDAR Production Value by Application (2027-2032) & (USD Million)
- Table 59. World LiDAR Average Price by Application (2021-2026) & (US\$/Unit)
- Table 60. World LiDAR Average Price by Application (2027-2032) & (US\$/Unit)
- Table 61. Hesai Technology Basic Information, Manufacturing Base and Competitors
- Table 62. Hesai Technology Major Business
- Table 63. Hesai Technology LiDAR Product and Services
- Table 64. Hesai Technology LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. Hesai Technology Recent Developments/Updates
- Table 66. Hesai Technology Competitive Strengths & Weaknesses
- Table 67. RoboSense Basic Information, Manufacturing Base and Competitors
- Table 68. RoboSense Major Business
- Table 69. RoboSense LiDAR Product and Services
- Table 70. RoboSense LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 71. RoboSense Recent Developments/Updates
- Table 72. RoboSense Competitive Strengths & Weaknesses
- Table 73. Seyond Basic Information, Manufacturing Base and Competitors
- Table 74. Seyond Major Business
- Table 75. Seyond LiDAR Product and Services
- Table 76. Seyond LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Seyond Recent Developments/Updates
- Table 78. Seyond Competitive Strengths & Weaknesses
- Table 79. Continental Basic Information, Manufacturing Base and Competitors
- Table 80. Continental Major Business
- Table 81. Continental LiDAR Product and Services
- Table 82. Continental LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Continental Recent Developments/Updates
- Table 84. Continental Competitive Strengths & Weaknesses
- Table 85. Ouster Basic Information, Manufacturing Base and Competitors
- Table 86. Ouster Major Business
- Table 87. Ouster LiDAR Product and Services
- Table 88. Ouster LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 89. Ouster Recent Developments/Updates
- Table 90. Ouster Competitive Strengths & Weaknesses
- Table 91. Hexagon AB Basic Information, Manufacturing Base and Competitors
- Table 92. Hexagon AB Major Business
- Table 93. Hexagon AB LiDAR Product and Services
- Table 94. Hexagon AB LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. Hexagon AB Recent Developments/Updates
- Table 96. Hexagon AB Competitive Strengths & Weaknesses
- Table 97. Trimble Basic Information, Manufacturing Base and Competitors
- Table 98. Trimble Major Business
- Table 99. Trimble LiDAR Product and Services
- Table 100. Trimble LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Trimble Recent Developments/Updates
- Table 102. Trimble Competitive Strengths & Weaknesses
- Table 103. Sick AG Basic Information, Manufacturing Base and Competitors
- Table 104. Sick AG Major Business
- Table 105. Sick AG LiDAR Product and Services
- Table 106. Sick AG LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 107. Sick AG Recent Developments/Updates
- Table 108. Sick AG Competitive Strengths & Weaknesses
- Table 109. Valeo Basic Information, Manufacturing Base and Competitors
- Table 110. Valeo Major Business
- Table 111. Valeo LiDAR Product and Services
- Table 112. Valeo LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 113. Valeo Recent Developments/Updates
- Table 114. Valeo Competitive Strengths & Weaknesses
- Table 115. Huawei Basic Information, Manufacturing Base and Competitors
- Table 116. Huawei Major Business
- Table 117. Huawei LiDAR Product and Services
- Table 118. Huawei LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. Huawei Recent Developments/Updates
- Table 120. Huawei Competitive Strengths & Weaknesses
- Table 121. Topcon Basic Information, Manufacturing Base and Competitors
- Table 122. Topcon Major Business

- Table 123. Topcon LiDAR Product and Services
- Table 124. Topcon LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. Topcon Recent Developments/Updates
- Table 126. Topcon Competitive Strengths & Weaknesses
- Table 127. Vaisala Basic Information, Manufacturing Base and Competitors
- Table 128. Vaisala Major Business
- Table 129. Vaisala LiDAR Product and Services
- Table 130. Vaisala LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 131. Vaisala Recent Developments/Updates
- Table 132. Vaisala Competitive Strengths & Weaknesses
- Table 133. Nanjing Movelaser Basic Information, Manufacturing Base and Competitors
- Table 134. Nanjing Movelaser Major Business
- Table 135. Nanjing Movelaser LiDAR Product and Services
- Table 136. Nanjing Movelaser LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 137. Nanjing Movelaser Recent Developments/Updates
- Table 138. Nanjing Movelaser Competitive Strengths & Weaknesses
- Table 139. Hokuyo Automatic Basic Information, Manufacturing Base and Competitors
- Table 140. Hokuyo Automatic Major Business
- Table 141. Hokuyo Automatic LiDAR Product and Services
- Table 142. Hokuyo Automatic LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 143. Hokuyo Automatic Recent Developments/Updates
- Table 144. Hokuyo Automatic Competitive Strengths & Weaknesses
- Table 145. Leishen Intelligent System Basic Information, Manufacturing Base and Competitors
- Table 146. Leishen Intelligent System Major Business
- Table 147. Leishen Intelligent System LiDAR Product and Services
- Table 148. Leishen Intelligent System LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 149. Leishen Intelligent System Recent Developments/Updates
- Table 150. Leishen Intelligent System Competitive Strengths & Weaknesses
- Table 151. Luminar Technologies Basic Information, Manufacturing Base and Competitors
- Table 152. Luminar Technologies Major Business
- Table 153. Luminar Technologies LiDAR Product and Services
- Table 154. Luminar Technologies LiDAR Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 155. Luminar Technologies Recent Developments/Updates

Table 156. Luminar Technologies Competitive Strengths & Weaknesses

Table 157. Innoviz Basic Information, Manufacturing Base and Competitors

Table 158. Innoviz Major Business

Table 159. Innoviz LiDAR Product and Services

Table 160. Innoviz LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 161. Innoviz Recent Developments/Updates

Table 162. Innoviz Competitive Strengths & Weaknesses

Table 163. Cepton (Koito) Basic Information, Manufacturing Base and Competitors

Table 164. Cepton (Koito) Major Business

Table 165. Cepton (Koito) LiDAR Product and Services

Table 166. Cepton (Koito) LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 167. Cepton (Koito) Recent Developments/Updates

Table 168. Cepton (Koito) Competitive Strengths & Weaknesses

Table 169. VanJee Technology Basic Information, Manufacturing Base and Competitors

Table 170. VanJee Technology Major Business

Table 171. VanJee Technology LiDAR Product and Services

Table 172. VanJee Technology LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 173. VanJee Technology Recent Developments/Updates

Table 174. VanJee Technology Competitive Strengths & Weaknesses

Table 175. Pepperl+Fuchs Basic Information, Manufacturing Base and Competitors

Table 176. Pepperl+Fuchs Major Business

Table 177. Pepperl+Fuchs LiDAR Product and Services

Table 178. Pepperl+Fuchs LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 179. Pepperl+Fuchs Recent Developments/Updates

Table 180. Pepperl+Fuchs Competitive Strengths & Weaknesses

Table 181. AEVA Basic Information, Manufacturing Base and Competitors

Table 182. AEVA Major Business

Table 183. AEVA LiDAR Product and Services

Table 184. AEVA LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 185. AEVA Recent Developments/Updates

Table 186. AEVA Competitive Strengths & Weaknesses

Table 187. LeddarTech Basic Information, Manufacturing Base and Competitors

- Table 188. LeddarTech Major Business
- Table 189. LeddarTech LiDAR Product and Services
- Table 190. LeddarTech LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 191. LeddarTech Recent Developments/Updates
- Table 192. LeddarTech Competitive Strengths & Weaknesses
- Table 193. Livox (DJI) Basic Information, Manufacturing Base and Competitors
- Table 194. Livox (DJI) Major Business
- Table 195. Livox (DJI) LiDAR Product and Services
- Table 196. Livox (DJI) LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 197. Livox (DJI) Recent Developments/Updates
- Table 198. Livox (DJI) Competitive Strengths & Weaknesses
- Table 199. Quanergy Basic Information, Manufacturing Base and Competitors
- Table 200. Quanergy Major Business
- Table 201. Quanergy LiDAR Product and Services
- Table 202. Quanergy LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 203. Quanergy Recent Developments/Updates
- Table 204. Quanergy Competitive Strengths & Weaknesses
- Table 205. MicroVision Basic Information, Manufacturing Base and Competitors
- Table 206. MicroVision Major Business
- Table 207. MicroVision LiDAR Product and Services
- Table 208. MicroVision LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 209. MicroVision Recent Developments/Updates
- Table 210. MicroVision Competitive Strengths & Weaknesses
- Table 211. SureStar Basic Information, Manufacturing Base and Competitors
- Table 212. SureStar Major Business
- Table 213. SureStar LiDAR Product and Services
- Table 214. SureStar LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 215. SureStar Recent Developments/Updates
- Table 216. SureStar Competitive Strengths & Weaknesses
- Table 217. Benewake Basic Information, Manufacturing Base and Competitors
- Table 218. Benewake Major Business
- Table 219. Benewake LiDAR Product and Services
- Table 220. Benewake LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 221. Benewake Recent Developments/Updates
- Table 222. Benewake Competitive Strengths & Weaknesses
- Table 223. HIH Basic Information, Manufacturing Base and Competitors
- Table 224. HIH Major Business
- Table 225. HIH LiDAR Product and Services
- Table 226. HIH LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 227. HIH Recent Developments/Updates
- Table 228. HIH Competitive Strengths & Weaknesses
- Table 229. Hangzhou OLE-Systems Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 230. Hangzhou OLE-Systems Co., Ltd Major Business
- Table 231. Hangzhou OLE-Systems Co., Ltd LiDAR Product and Services
- Table 232. Hangzhou OLE-Systems Co., Ltd LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 233. Hangzhou OLE-Systems Co., Ltd Recent Developments/Updates
- Table 234. Hangzhou OLE-Systems Co., Ltd Competitive Strengths & Weaknesses
- Table 235. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
- Table 236. Mitsubishi Electric Major Business
- Table 237. Mitsubishi Electric LiDAR Product and Services
- Table 238. Mitsubishi Electric LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 239. Mitsubishi Electric Recent Developments/Updates
- Table 240. Mitsubishi Electric Competitive Strengths & Weaknesses
- Table 241. Global Key Players of LiDAR Upstream (Raw Materials)
- Table 242. Global LiDAR Typical Customers
- Table 243. LiDAR Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. LiDAR Picture

Figure 2. World LiDAR Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World LiDAR Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World LiDAR Production (2021-2032) & (K Units)

Figure 5. World LiDAR Average Price (2021-2032) & (US\$/Unit)

Figure 6. World LiDAR Production Value Market Share by Region (2021-2032)

Figure 7. World LiDAR Production Market Share by Region (2021-2032)

Figure 8. North America LiDAR Production (2021-2032) & (K Units)

Figure 9. Europe LiDAR Production (2021-2032) & (K Units)

Figure 10. China LiDAR Production (2021-2032) & (K Units)

Figure 11. Japan LiDAR Production (2021-2032) & (K Units)

Figure 12. LiDAR Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World LiDAR Consumption (2021-2032) & (K Units)

Figure 15. World LiDAR Consumption Market Share by Region (2021-2032)

Figure 16. United States LiDAR Consumption (2021-2032) & (K Units)

Figure 17. China LiDAR Consumption (2021-2032) & (K Units)

Figure 18. Europe LiDAR Consumption (2021-2032) & (K Units)

Figure 19. Japan LiDAR Consumption (2021-2032) & (K Units)

Figure 20. South Korea LiDAR Consumption (2021-2032) & (K Units)

Figure 21. ASEAN LiDAR Consumption (2021-2032) & (K Units)

Figure 22. India LiDAR Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of LiDAR by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for LiDAR Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for LiDAR Markets in 2025

Figure 26. United States VS China: LiDAR Production Value Market Share Comparison (2021 & 2025 & 2032)

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

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

Figure 29. United States Based Manufacturers LiDAR Production Market Share 2025

Figure 30. China Based Manufacturers LiDAR Production Market Share 2025

Figure 31. Rest of World Based Manufacturers LiDAR Production Market Share 2025

- Figure 32. World LiDAR Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World LiDAR Production Value Market Share by Type in 2025
- Figure 34. Mechanical LiDAR
- Figure 35. Solid State LiDAR
- Figure 36. World LiDAR Production Market Share by Type (2021-2032)
- Figure 37. World LiDAR Production Value Market Share by Type (2021-2032)
- Figure 38. World LiDAR Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 39. World LiDAR Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 40. World LiDAR Production Value Market Share by Application in 2025
- Figure 41. Automotive
- Figure 42. Robotics
- Figure 43. Smart Infrastructure
- Figure 44. Rail
- Figure 45. Construction, Mining & Agriculture
- Figure 46. Others
- Figure 47. World LiDAR Production Market Share by Application (2021-2032)
- Figure 48. World LiDAR Production Value Market Share by Application (2021-2032)
- Figure 49. World LiDAR Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 50. LiDAR Industry Chain
- Figure 51. LiDAR Procurement Model
- Figure 52. LiDAR Sales Model
- Figure 53. LiDAR Sales Channels, Direct Sales, and Distribution
- Figure 54. Methodology
- Figure 55. Research Process and Data Source

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