

Global Automotive-Grade Pure Solid-State LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-Grade Pure Solid-State LiDAR market size was valued at US\$ 1297 million in 2025 and is forecast to a readjusted size of US\$ 4399 million by 2032 with a CAGR of 19.0% during review period.

In 2025, global Automotive-Grade Pure Solid-State LiDAR production reached approximately 2.8 million units, with an average global market price of around US\$450 per unit.

Automotive-grade pure solid-state LiDAR is a vehicle-mounted 3D sensing technology that uses non-mechanical scanning architectures (such as MEMS, optical phased array, or flash LiDAR) to emit laser pulses and capture reflected signals, generating high-resolution point clouds for real-time environmental perception. Compared with mechanical LiDAR, solid-state solutions offer compact structure, higher reliability, better vibration resistance, and scalability for mass production, while meeting automotive standards such as AEC-Q and ISO 26262. It is widely used in ADAS and autonomous driving (L2+ to L4) for object detection, ranging, and environmental mapping, making it a key sensor for intelligent vehicles.

The upstream of automotive pure solid-state LiDAR includes laser emitters (VCSEL, EEL), optical components (lenses, filters), detectors (APD, SPAD, InGaAs), semiconductor materials (GaAs, InP), ASIC chips, PCBs, and packaging materials. The midstream consists of LiDAR manufacturers responsible for system design, optoelectronic integration, algorithms, and production. Downstream includes automotive OEMs and autonomous driving solution providers. Representative upstream suppliers

include ams OSRAM, Lumentum, II-VI (Coherent), Hamamatsu, Sony, and Broadcom. Key LiDAR companies include Luminar, Innoviz, Hesai, RoboSense, Valeo, and Ouster. Downstream customers include OEMs such as Tesla, Mercedes-Benz, BMW, Volvo, Toyota, and BYD. The industry chain is highly integrated across photonics, semiconductors, and automotive systems.

This report is a detailed and comprehensive analysis for global Automotive-Grade Pure Solid-State LiDAR market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive-Grade Pure Solid-State LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Pure Solid-State LiDAR market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Pure Solid-State LiDAR market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Pure Solid-State LiDAR market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive-Grade Pure Solid-State LiDAR

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-Grade Pure Solid-State LiDAR

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Opsys-Tech, XenomatiX, Continental, Quanergy, LeddarTech, Sense Photonics, PreAct Technologies, Advanced Scientific Concepts LLC, Luminar, Ouster, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive-Grade Pure Solid-State LiDAR market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Flash LiDAR

Optical Phased Array LiDAR

Others

Market segment by Detection Range

100-200 m

200-300 m

Others

Market segment by Laser Wavelength

905 nm

1550 nm

Others

Market segment by Application

Passenger Vehicles

Commercial Vehicles

Major players covered

Opsys-Tech

XenomatiX

Continental

Quanergy

LeddarTech

Sense Photonics

PreAct Technologies

Advanced Scientific Concepts LLC

Luminar

Ouster

Innoviz

Valeo

ToFFuture

Zvision

RoboSense

Hesai Technology

LIVOX

LiangDao Automotive

LuminWave

Neuvition

Leishen Intelligence

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive-Grade Pure Solid-State LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-Grade Pure Solid-State LiDAR, with price, sales quantity, revenue, and global market share of Automotive-Grade Pure Solid-State LiDAR from 2021 to 2026.

Chapter 3, the Automotive-Grade Pure Solid-State LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-Grade Pure Solid-State LiDAR breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-Grade Pure Solid-State LiDAR market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-Grade Pure Solid-State LiDAR.

Chapter 14 and 15, to describe Automotive-Grade Pure Solid-State LiDAR sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Flash LiDAR

1.3.3 Optical Phased Array LiDAR

1.3.4 Others

1.4 Market Analysis by Detection Range

1.4.1 Overview: Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Detection Range: 2021 Versus 2025 Versus 2032

1.4.2 100-200 m

1.4.3 200-300 m

1.4.4 Others

1.5 Market Analysis by Laser Wavelength

1.5.1 Overview: Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Laser Wavelength: 2021 Versus 2025 Versus 2032

1.5.2 905 nm

1.5.3 1550 nm

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Passenger Vehicles

1.6.3 Commercial Vehicles

1.7 Global Automotive-Grade Pure Solid-State LiDAR Market Size & Forecast

1.7.1 Global Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity (2021-2032)

1.7.3 Global Automotive-Grade Pure Solid-State LiDAR Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Opsys-Tech

2.1.1 Opsys-Tech Details

- 2.1.2 Opsys-Tech Major Business
- 2.1.3 Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Product and Services
- 2.1.4 Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Opsys-Tech Recent Developments/Updates
- 2.2 XenomatiX
 - 2.2.1 XenomatiX Details
 - 2.2.2 XenomatiX Major Business
 - 2.2.3 XenomatiX Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.2.4 XenomatiX Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 XenomatiX Recent Developments/Updates
- 2.3 Continental
 - 2.3.1 Continental Details
 - 2.3.2 Continental Major Business
 - 2.3.3 Continental Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.3.4 Continental Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Continental Recent Developments/Updates
- 2.4 Quanergy
 - 2.4.1 Quanergy Details
 - 2.4.2 Quanergy Major Business
 - 2.4.3 Quanergy Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.4.4 Quanergy Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Quanergy Recent Developments/Updates
- 2.5 LeddarTech
 - 2.5.1 LeddarTech Details
 - 2.5.2 LeddarTech Major Business
 - 2.5.3 LeddarTech Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.5.4 LeddarTech Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 LeddarTech Recent Developments/Updates
- 2.6 Sense Photonics
 - 2.6.1 Sense Photonics Details
 - 2.6.2 Sense Photonics Major Business
 - 2.6.3 Sense Photonics Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.6.4 Sense Photonics Automotive-Grade Pure Solid-State LiDAR Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Sense Photonics Recent Developments/Updates

2.7 PreAct Technologies

2.7.1 PreAct Technologies Details

2.7.2 PreAct Technologies Major Business

2.7.3 PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Product and Services

2.7.4 PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 PreAct Technologies Recent Developments/Updates

2.8 Advanced Scientific Concepts LLC

2.8.1 Advanced Scientific Concepts LLC Details

2.8.2 Advanced Scientific Concepts LLC Major Business

2.8.3 Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Product and Services

2.8.4 Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Advanced Scientific Concepts LLC Recent Developments/Updates

2.9 Luminar

2.9.1 Luminar Details

2.9.2 Luminar Major Business

2.9.3 Luminar Automotive-Grade Pure Solid-State LiDAR Product and Services

2.9.4 Luminar Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Luminar Recent Developments/Updates

2.10 Ouster

2.10.1 Ouster Details

2.10.2 Ouster Major Business

2.10.3 Ouster Automotive-Grade Pure Solid-State LiDAR Product and Services

2.10.4 Ouster Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Ouster Recent Developments/Updates

2.11 Innoviz

2.11.1 Innoviz Details

2.11.2 Innoviz Major Business

2.11.3 Innoviz Automotive-Grade Pure Solid-State LiDAR Product and Services

2.11.4 Innoviz Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Innoviz Recent Developments/Updates

2.12 Valeo

2.12.1 Valeo Details

2.12.2 Valeo Major Business

2.12.3 Valeo Automotive-Grade Pure Solid-State LiDAR Product and Services

2.12.4 Valeo Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Valeo Recent Developments/Updates

2.13 ToFFuture

2.13.1 ToFFuture Details

2.13.2 ToFFuture Major Business

2.13.3 ToFFuture Automotive-Grade Pure Solid-State LiDAR Product and Services

2.13.4 ToFFuture Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 ToFFuture Recent Developments/Updates

2.14 Zvision

2.14.1 Zvision Details

2.14.2 Zvision Major Business

2.14.3 Zvision Automotive-Grade Pure Solid-State LiDAR Product and Services

2.14.4 Zvision Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Zvision Recent Developments/Updates

2.15 RoboSense

2.15.1 RoboSense Details

2.15.2 RoboSense Major Business

2.15.3 RoboSense Automotive-Grade Pure Solid-State LiDAR Product and Services

2.15.4 RoboSense Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 RoboSense Recent Developments/Updates

2.16 Hesai Technology

2.16.1 Hesai Technology Details

2.16.2 Hesai Technology Major Business

2.16.3 Hesai Technology Automotive-Grade Pure Solid-State LiDAR Product and Services

2.16.4 Hesai Technology Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Hesai Technology Recent Developments/Updates

2.17 LIVOX

2.17.1 LIVOX Details

2.17.2 LIVOX Major Business

- 2.17.3 LIVOX Automotive-Grade Pure Solid-State LiDAR Product and Services
- 2.17.4 LIVOX Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.17.5 LIVOX Recent Developments/Updates
- 2.18 LiangDao Automotive
 - 2.18.1 LiangDao Automotive Details
 - 2.18.2 LiangDao Automotive Major Business
 - 2.18.3 LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.18.4 LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 LiangDao Automotive Recent Developments/Updates
- 2.19 LuminWave
 - 2.19.1 LuminWave Details
 - 2.19.2 LuminWave Major Business
 - 2.19.3 LuminWave Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.19.4 LuminWave Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 LuminWave Recent Developments/Updates
- 2.20 Neuvition
 - 2.20.1 Neuvition Details
 - 2.20.2 Neuvition Major Business
 - 2.20.3 Neuvition Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.20.4 Neuvition Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 Neuvition Recent Developments/Updates
- 2.21 Leishen Intelligence
 - 2.21.1 Leishen Intelligence Details
 - 2.21.2 Leishen Intelligence Major Business
 - 2.21.3 Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 2.21.4 Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.21.5 Leishen Intelligence Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE-GRADE PURE SOLID-STATE LIDAR BY MANUFACTURER

3.1 Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Manufacturer

(2021-2026)

3.2 Global Automotive-Grade Pure Solid-State LiDAR Revenue by Manufacturer

(2021-2026)

3.3 Global Automotive-Grade Pure Solid-State LiDAR Average Price by Manufacturer

(2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Automotive-Grade Pure Solid-State LiDAR by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Automotive-Grade Pure Solid-State LiDAR Manufacturer Market Share in 2025

3.4.3 Top 6 Automotive-Grade Pure Solid-State LiDAR Manufacturer Market Share in 2025

3.5 Automotive-Grade Pure Solid-State LiDAR Market: Overall Company Footprint Analysis

3.5.1 Automotive-Grade Pure Solid-State LiDAR Market: Region Footprint

3.5.2 Automotive-Grade Pure Solid-State LiDAR Market: Company Product Type Footprint

3.5.3 Automotive-Grade Pure Solid-State LiDAR Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Automotive-Grade Pure Solid-State LiDAR Market Size by Region

4.1.1 Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2021-2032)

4.1.2 Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2021-2032)

4.1.3 Global Automotive-Grade Pure Solid-State LiDAR Average Price by Region (2021-2032)

4.2 North America Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032)

4.3 Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032)

4.4 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032)

4.5 South America Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032)

4.6 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value

(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type
(2021-2032)

5.2 Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Type
(2021-2032)

5.3 Global Automotive-Grade Pure Solid-State LiDAR Average Price by Type
(2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application
(2021-2032)

6.2 Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by
Application (2021-2032)

6.3 Global Automotive-Grade Pure Solid-State LiDAR Average Price by Application
(2021-2032)

7 NORTH AMERICA

7.1 North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type
(2021-2032)

7.2 North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by
Application (2021-2032)

7.3 North America Automotive-Grade Pure Solid-State LiDAR Market Size by Country

7.3.1 North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by
Country (2021-2032)

7.3.2 North America Automotive-Grade Pure Solid-State LiDAR Consumption Value by
Country (2021-2032)

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

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type
(2021-2032)

8.2 Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2032)

8.3 Europe Automotive-Grade Pure Solid-State LiDAR Market Size by Country

8.3.1 Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2032)

8.3.2 Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

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

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Market Size by Region

9.3.1 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

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

9.3.6 India Market Size and Forecast (2021-2032)

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

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2032)

10.2 South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2032)

10.3 South America Automotive-Grade Pure Solid-State LiDAR Market Size by Country

10.3.1 South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by

Country (2021-2032)

10.3.2 South America Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Market Size by Country

11.3.1 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

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

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

12 MARKET DYNAMICS

12.1 Automotive-Grade Pure Solid-State LiDAR Market Drivers

12.2 Automotive-Grade Pure Solid-State LiDAR Market Restraints

12.3 Automotive-Grade Pure Solid-State LiDAR Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Automotive-Grade Pure Solid-State LiDAR and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automotive-Grade Pure Solid-State LiDAR

- 13.3 Automotive-Grade Pure Solid-State LiDAR Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Automotive-Grade Pure Solid-State LiDAR Typical Distributors
- 14.3 Automotive-Grade Pure Solid-State LiDAR Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Detection Range, (USD Million), 2021 & 2025 & 2032

Table 3. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Laser Wavelength, (USD Million), 2021 & 2025 & 2032

Table 4. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Opsys-Tech Basic Information, Manufacturing Base and Competitors

Table 6. Opsys-Tech Major Business

Table 7. Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 8. Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Opsys-Tech Recent Developments/Updates

Table 10. XenomatiX Basic Information, Manufacturing Base and Competitors

Table 11. XenomatiX Major Business

Table 12. XenomatiX Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 13. XenomatiX Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. XenomatiX Recent Developments/Updates

Table 15. Continental Basic Information, Manufacturing Base and Competitors

Table 16. Continental Major Business

Table 17. Continental Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 18. Continental Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Continental Recent Developments/Updates

Table 20. Quanergy Basic Information, Manufacturing Base and Competitors

Table 21. Quanergy Major Business

Table 22. Quanergy Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 23. Quanergy Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Quanergy Recent Developments/Updates

Table 25. LeddarTech Basic Information, Manufacturing Base and Competitors

Table 26. LeddarTech Major Business

Table 27. LeddarTech Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 28. LeddarTech Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. LeddarTech Recent Developments/Updates

Table 30. Sense Photonics Basic Information, Manufacturing Base and Competitors

Table 31. Sense Photonics Major Business

Table 32. Sense Photonics Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 33. Sense Photonics Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Sense Photonics Recent Developments/Updates

Table 35. PreAct Technologies Basic Information, Manufacturing Base and Competitors

Table 36. PreAct Technologies Major Business

Table 37. PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 38. PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. PreAct Technologies Recent Developments/Updates

Table 40. Advanced Scientific Concepts LLC Basic Information, Manufacturing Base and Competitors

Table 41. Advanced Scientific Concepts LLC Major Business

Table 42. Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 43. Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Advanced Scientific Concepts LLC Recent Developments/Updates

Table 45. Luminar Basic Information, Manufacturing Base and Competitors

Table 46. Luminar Major Business

Table 47. Luminar Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 48. Luminar Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Luminar Recent Developments/Updates

Table 50. Ouster Basic Information, Manufacturing Base and Competitors

Table 51. Ouster Major Business

Table 52. Ouster Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 53. Ouster Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Ouster Recent Developments/Updates

Table 55. Innoviz Basic Information, Manufacturing Base and Competitors

Table 56. Innoviz Major Business

Table 57. Innoviz Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 58. Innoviz Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Innoviz Recent Developments/Updates

Table 60. Valeo Basic Information, Manufacturing Base and Competitors

Table 61. Valeo Major Business

Table 62. Valeo Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 63. Valeo Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Valeo Recent Developments/Updates

Table 65. ToFFuture Basic Information, Manufacturing Base and Competitors

Table 66. ToFFuture Major Business

Table 67. ToFFuture Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 68. ToFFuture Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. ToFFuture Recent Developments/Updates

Table 70. Zvision Basic Information, Manufacturing Base and Competitors

Table 71. Zvision Major Business

Table 72. Zvision Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 73. Zvision Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Zvision Recent Developments/Updates

Table 75. RoboSense Basic Information, Manufacturing Base and Competitors

Table 76. RoboSense Major Business

Table 77. RoboSense Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 78. RoboSense Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. RoboSense Recent Developments/Updates

Table 80. Hesai Technology Basic Information, Manufacturing Base and Competitors

Table 81. Hesai Technology Major Business

Table 82. Hesai Technology Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 83. Hesai Technology Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Hesai Technology Recent Developments/Updates

Table 85. LIVOX Basic Information, Manufacturing Base and Competitors

Table 86. LIVOX Major Business

Table 87. LIVOX Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 88. LIVOX Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. LIVOX Recent Developments/Updates

Table 90. LiangDao Automotive Basic Information, Manufacturing Base and Competitors

Table 91. LiangDao Automotive Major Business

Table 92. LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 93. LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. LiangDao Automotive Recent Developments/Updates

Table 95. LuminWave Basic Information, Manufacturing Base and Competitors

Table 96. LuminWave Major Business

Table 97. LuminWave Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 98. LuminWave Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 99. LuminWave Recent Developments/Updates

Table 100. Neuvition Basic Information, Manufacturing Base and Competitors

Table 101. Neuvition Major Business

Table 102. Neuvition Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 103. Neuvition Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K

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

Table 104. Neuvition Recent Developments/Updates

Table 105. Leishen Intelligence Basic Information, Manufacturing Base and Competitors

Table 106. Leishen Intelligence Major Business

Table 107. Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 108. Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Leishen Intelligence Recent Developments/Updates

Table 110. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 111. Global Automotive-Grade Pure Solid-State LiDAR Revenue by Manufacturer (2021-2026) & (USD Million)

Table 112. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 113. Market Position of Manufacturers in Automotive-Grade Pure Solid-State LiDAR, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 114. Head Office and Automotive-Grade Pure Solid-State LiDAR Production Site of Key Manufacturer

Table 115. Automotive-Grade Pure Solid-State LiDAR Market: Company Product Type Footprint

Table 116. Automotive-Grade Pure Solid-State LiDAR Market: Company Product Application Footprint

Table 117. Automotive-Grade Pure Solid-State LiDAR New Market Entrants and Barriers to Market Entry

Table 118. Automotive-Grade Pure Solid-State LiDAR Mergers, Acquisition, Agreements, and Collaborations

Table 119. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 120. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2021-2026) & (K Units)

Table 121. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2027-2032) & (K Units)

Table 122. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2021-2026) & (USD Million)

Table 123. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2027-2032) & (USD Million)

- Table 124. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Region (2021-2026) & (US\$/Unit)
- Table 125. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Region (2027-2032) & (US\$/Unit)
- Table 126. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)
- Table 127. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)
- Table 128. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Type (2021-2026) & (USD Million)
- Table 129. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Type (2027-2032) & (USD Million)
- Table 130. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Type (2021-2026) & (US\$/Unit)
- Table 131. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Type (2027-2032) & (US\$/Unit)
- Table 132. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)
- Table 133. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)
- Table 134. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Application (2021-2026) & (USD Million)
- Table 135. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Application (2027-2032) & (USD Million)
- Table 136. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2021-2026) & (US\$/Unit)
- Table 137. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2027-2032) & (US\$/Unit)
- Table 138. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)
- Table 139. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)
- Table 140. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)
- Table 141. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)
- Table 142. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2026) & (K Units)
- Table 143. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by

Country (2027-2032) & (K Units)

Table 144. North America Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2026) & (USD Million)

Table 145. North America Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2027-2032) & (USD Million)

Table 146. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)

Table 147. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)

Table 148. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)

Table 149. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)

Table 150. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2026) & (K Units)

Table 151. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2027-2032) & (K Units)

Table 152. Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2026) & (USD Million)

Table 153. Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2027-2032) & (USD Million)

Table 154. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)

Table 155. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)

Table 156. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)

Table 157. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)

Table 158. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2021-2026) & (K Units)

Table 159. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Region (2027-2032) & (K Units)

Table 160. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2021-2026) & (USD Million)

Table 161. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value by Region (2027-2032) & (USD Million)

Table 162. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)

Table 163. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)

Table 164. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)

Table 165. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)

Table 166. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2026) & (K Units)

Table 167. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2027-2032) & (K Units)

Table 168. South America Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2026) & (USD Million)

Table 169. South America Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2027-2032) & (USD Million)

Table 170. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2021-2026) & (K Units)

Table 171. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Type (2027-2032) & (K Units)

Table 172. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2021-2026) & (K Units)

Table 173. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Application (2027-2032) & (K Units)

Table 174. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2021-2026) & (K Units)

Table 175. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity by Country (2027-2032) & (K Units)

Table 176. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2021-2026) & (USD Million)

Table 177. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value by Country (2027-2032) & (USD Million)

Table 178. Automotive-Grade Pure Solid-State LiDAR Raw Material

Table 179. Key Manufacturers of Automotive-Grade Pure Solid-State LiDAR Raw Materials

Table 180. Automotive-Grade Pure Solid-State LiDAR Typical Distributors

Table 181. Automotive-Grade Pure Solid-State LiDAR Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automotive-Grade Pure Solid-State LiDAR Picture

Figure 2. Global Automotive-Grade Pure Solid-State LiDAR Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Type in 2025

Figure 4. Flash LiDAR Examples

Figure 5. Optical Phased Array LiDAR Examples

Figure 6. Others Examples

Figure 7. Global Automotive-Grade Pure Solid-State LiDAR Revenue by Detection Range, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Detection Range in 2025

Figure 9. 100-200 m Examples

Figure 10. 200-300 m Examples

Figure 11. Others Examples

Figure 12. Global Automotive-Grade Pure Solid-State LiDAR Revenue by Laser Wavelength, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Laser Wavelength in 2025

Figure 14. 905 nm Examples

Figure 15. 1550 nm Examples

Figure 16. Others Examples

Figure 17. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Application in 2025

Figure 19. Passenger Vehicles Examples

Figure 20. Commercial Vehicles Examples

Figure 21. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity (2021-2032) & (K Units)

Figure 24. Global Automotive-Grade Pure Solid-State LiDAR Price (2021-2032) &

(US\$/Unit)

Figure 25. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Automotive-Grade Pure Solid-State LiDAR by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Automotive-Grade Pure Solid-State LiDAR Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Automotive-Grade Pure Solid-State LiDAR Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Automotive-Grade Pure Solid-State LiDAR Revenue Market Share by Application (2021-2032)

Figure 42. Global Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 55. France Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Region (2021-2032)

Figure 63. China Automotive-Grade Pure Solid-State LiDAR Consumption Value

(2021-2032) & (USD Million)

Figure 64. Japan Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 66. India Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Automotive-Grade Pure Solid-State LiDAR Consumption Value (2021-2032) & (USD Million)

Figure 83. Automotive-Grade Pure Solid-State LiDAR Market Drivers

Figure 84. Automotive-Grade Pure Solid-State LiDAR Market Restraints

Figure 85. Automotive-Grade Pure Solid-State LiDAR Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of Automotive-Grade Pure Solid-State LiDAR in 2025

Figure 88. Manufacturing Process Analysis of Automotive-Grade Pure Solid-State LiDAR

Figure 89. Automotive-Grade Pure Solid-State LiDAR Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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