

Global Automotive-Grade Pure Solid-State LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive-Grade Pure Solid-State LiDAR market size is expected to reach \$ 4399 million by 2032, rising at a market growth of 19.0% CAGR during the forecast period (2026-2032).

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 studies the global Automotive-Grade Pure Solid-State LiDAR production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive-Grade Pure Solid-State LiDAR total production and demand, 2021-2032, (K Units)

Global Automotive-Grade Pure Solid-State LiDAR total production value, 2021-2032, (USD Million)

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

Global Automotive-Grade Pure Solid-State LiDAR consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive-Grade Pure Solid-State LiDAR domestic production, consumption, key domestic manufacturers and share

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

Global Automotive-Grade Pure Solid-State LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive-Grade Pure Solid-State LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive-Grade Pure Solid-State 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 Automotive-Grade Pure Solid-State LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive-Grade Pure Solid-State LiDAR Market, Segmentation by Type:

Flash LiDAR

Optical Phased Array LiDAR

Others

Global Automotive-Grade Pure Solid-State LiDAR Market, Segmentation by Detection Range:

100-200 m

200-300 m

Others

Global Automotive-Grade Pure Solid-State LiDAR Market, Segmentation by Laser Wavelength:

905 nm

1550 nm

Others

Global Automotive-Grade Pure Solid-State LiDAR Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

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

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Automotive-Grade Pure Solid-State LiDAR Demand (2021-2032)
- 2.2 World Automotive-Grade Pure Solid-State LiDAR Consumption by Region
 - 2.2.1 World Automotive-Grade Pure Solid-State LiDAR Consumption by Region (2021-2026)
 - 2.2.2 World Automotive-Grade Pure Solid-State LiDAR Consumption Forecast by Region (2027-2032)

- 2.3 United States Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.4 China Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.5 Europe Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.6 Japan Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.7 South Korea Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.8 ASEAN Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)
- 2.9 India Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automotive-Grade Pure Solid-State LiDAR Production Value by Manufacturer (2021-2026)
- 3.2 World Automotive-Grade Pure Solid-State LiDAR Production by Manufacturer (2021-2026)
- 3.3 World Automotive-Grade Pure Solid-State LiDAR Average Price by Manufacturer (2021-2026)
- 3.4 Automotive-Grade Pure Solid-State LiDAR Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automotive-Grade Pure Solid-State LiDAR Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automotive-Grade Pure Solid-State LiDAR in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automotive-Grade Pure Solid-State LiDAR in 2025
- 3.6 Automotive-Grade Pure Solid-State LiDAR Market: Overall Company Footprint Analysis
 - 3.6.1 Automotive-Grade Pure Solid-State LiDAR Market: Region Footprint
 - 3.6.2 Automotive-Grade Pure Solid-State LiDAR Market: Company Product Type Footprint
 - 3.6.3 Automotive-Grade Pure Solid-State 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: Automotive-Grade Pure Solid-State LiDAR Production Value Comparison

4.1.1 United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Comparison

4.2.1 United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automotive-Grade Pure Solid-State LiDAR Consumption Comparison

4.3.1 United States VS China: Automotive-Grade Pure Solid-State LiDAR Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive-Grade Pure Solid-State LiDAR Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive-Grade Pure Solid-State LiDAR Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production (2021-2026)

4.5 China Based Automotive-Grade Pure Solid-State LiDAR Manufacturers and Market Share

4.5.1 China Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production (2021-2026)

4.6 Rest of World Based Automotive-Grade Pure Solid-State LiDAR Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive-Grade Pure Solid-State LiDAR Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Flash LiDAR

5.2.2 Optical Phased Array LiDAR

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Automotive-Grade Pure Solid-State LiDAR Production by Type (2021-2032)

5.3.2 World Automotive-Grade Pure Solid-State LiDAR Production Value by Type (2021-2032)

5.3.3 World Automotive-Grade Pure Solid-State LiDAR Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DETECTION RANGE

6.1 World Automotive-Grade Pure Solid-State LiDAR Market Size Overview by Detection Range: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Detection Range

6.2.1 100-200 m

6.2.2 200-300 m

6.2.3 Others

6.3 Market Segment by Detection Range

6.3.1 World Automotive-Grade Pure Solid-State LiDAR Production by Detection Range (2021-2032)

6.3.2 World Automotive-Grade Pure Solid-State LiDAR Production Value by Detection Range (2021-2032)

6.3.3 World Automotive-Grade Pure Solid-State LiDAR Average Price by Detection Range (2021-2032)

7 MARKET ANALYSIS BY LASER WAVELENGTH

7.1 World Automotive-Grade Pure Solid-State LiDAR Market Size Overview by Laser Wavelength: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Laser Wavelength

7.2.1 905 nm

7.2.2 1550 nm

7.2.3 Others

7.3 Market Segment by Laser Wavelength

7.3.1 World Automotive-Grade Pure Solid-State LiDAR Production by Laser Wavelength (2021-2032)

7.3.2 World Automotive-Grade Pure Solid-State LiDAR Production Value by Laser Wavelength (2021-2032)

7.3.3 World Automotive-Grade Pure Solid-State LiDAR Average Price by Laser Wavelength (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive-Grade Pure Solid-State LiDAR Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Vehicles

8.2.2 Commercial Vehicles

8.3 Market Segment by Application

8.3.1 World Automotive-Grade Pure Solid-State LiDAR Production by Application (2021-2032)

8.3.2 World Automotive-Grade Pure Solid-State LiDAR Production Value by Application (2021-2032)

8.3.3 World Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Opsys-Tech

9.1.1 Opsys-Tech Details

9.1.2 Opsys-Tech Major Business

9.1.3 Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Product and Services

9.1.4 Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Opsys-Tech Recent Developments/Updates

9.1.6 Opsys-Tech Competitive Strengths & Weaknesses

9.2 XenomatiX

9.2.1 XenomatiX Details

9.2.2 XenomatiX Major Business

9.2.3 XenomatiX Automotive-Grade Pure Solid-State LiDAR Product and Services

9.2.4 XenomatiX Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 XenomatiX Recent Developments/Updates

9.2.6 XenomatiX Competitive Strengths & Weaknesses

9.3 Continental

9.3.1 Continental Details

9.3.2 Continental Major Business

9.3.3 Continental Automotive-Grade Pure Solid-State LiDAR Product and Services

9.3.4 Continental Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Continental Recent Developments/Updates

9.3.6 Continental Competitive Strengths & Weaknesses

9.4 Quanergy

9.4.1 Quanergy Details

9.4.2 Quanergy Major Business

9.4.3 Quanergy Automotive-Grade Pure Solid-State LiDAR Product and Services

9.4.4 Quanergy Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Quanergy Recent Developments/Updates

9.4.6 Quanergy Competitive Strengths & Weaknesses

9.5 LeddarTech

9.5.1 LeddarTech Details

9.5.2 LeddarTech Major Business

9.5.3 LeddarTech Automotive-Grade Pure Solid-State LiDAR Product and Services

9.5.4 LeddarTech Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 LeddarTech Recent Developments/Updates

9.5.6 LeddarTech Competitive Strengths & Weaknesses

9.6 Sense Photonics

9.6.1 Sense Photonics Details

9.6.2 Sense Photonics Major Business

9.6.3 Sense Photonics Automotive-Grade Pure Solid-State LiDAR Product and Services

9.6.4 Sense Photonics Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Sense Photonics Recent Developments/Updates
- 9.6.6 Sense Photonics Competitive Strengths & Weaknesses
- 9.7 PreAct Technologies
 - 9.7.1 PreAct Technologies Details
 - 9.7.2 PreAct Technologies Major Business
 - 9.7.3 PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.7.4 PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 PreAct Technologies Recent Developments/Updates
 - 9.7.6 PreAct Technologies Competitive Strengths & Weaknesses
- 9.8 Advanced Scientific Concepts LLC
 - 9.8.1 Advanced Scientific Concepts LLC Details
 - 9.8.2 Advanced Scientific Concepts LLC Major Business
 - 9.8.3 Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.8.4 Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Advanced Scientific Concepts LLC Recent Developments/Updates
 - 9.8.6 Advanced Scientific Concepts LLC Competitive Strengths & Weaknesses
- 9.9 Luminar
 - 9.9.1 Luminar Details
 - 9.9.2 Luminar Major Business
 - 9.9.3 Luminar Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.9.4 Luminar Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Luminar Recent Developments/Updates
 - 9.9.6 Luminar Competitive Strengths & Weaknesses
- 9.10 Ouster
 - 9.10.1 Ouster Details
 - 9.10.2 Ouster Major Business
 - 9.10.3 Ouster Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.10.4 Ouster Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Ouster Recent Developments/Updates
 - 9.10.6 Ouster Competitive Strengths & Weaknesses
- 9.11 Innoviz
 - 9.11.1 Innoviz Details
 - 9.11.2 Innoviz Major Business

- 9.11.3 Innoviz Automotive-Grade Pure Solid-State LiDAR Product and Services
- 9.11.4 Innoviz Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Innoviz Recent Developments/Updates
- 9.11.6 Innoviz Competitive Strengths & Weaknesses
- 9.12 Valeo
 - 9.12.1 Valeo Details
 - 9.12.2 Valeo Major Business
 - 9.12.3 Valeo Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.12.4 Valeo Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Valeo Recent Developments/Updates
 - 9.12.6 Valeo Competitive Strengths & Weaknesses
- 9.13 ToFFuture
 - 9.13.1 ToFFuture Details
 - 9.13.2 ToFFuture Major Business
 - 9.13.3 ToFFuture Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.13.4 ToFFuture Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 ToFFuture Recent Developments/Updates
 - 9.13.6 ToFFuture Competitive Strengths & Weaknesses
- 9.14 Zvision
 - 9.14.1 Zvision Details
 - 9.14.2 Zvision Major Business
 - 9.14.3 Zvision Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.14.4 Zvision Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Zvision Recent Developments/Updates
 - 9.14.6 Zvision Competitive Strengths & Weaknesses
- 9.15 RoboSense
 - 9.15.1 RoboSense Details
 - 9.15.2 RoboSense Major Business
 - 9.15.3 RoboSense Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.15.4 RoboSense Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 RoboSense Recent Developments/Updates
 - 9.15.6 RoboSense Competitive Strengths & Weaknesses
- 9.16 Hesai Technology
 - 9.16.1 Hesai Technology Details

- 9.16.2 Hesai Technology Major Business
- 9.16.3 Hesai Technology Automotive-Grade Pure Solid-State LiDAR Product and Services
- 9.16.4 Hesai Technology Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Hesai Technology Recent Developments/Updates
- 9.16.6 Hesai Technology Competitive Strengths & Weaknesses
- 9.17 LIVOX
 - 9.17.1 LIVOX Details
 - 9.17.2 LIVOX Major Business
 - 9.17.3 LIVOX Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.17.4 LIVOX Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 LIVOX Recent Developments/Updates
 - 9.17.6 LIVOX Competitive Strengths & Weaknesses
- 9.18 LiangDao Automotive
 - 9.18.1 LiangDao Automotive Details
 - 9.18.2 LiangDao Automotive Major Business
 - 9.18.3 LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.18.4 LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 LiangDao Automotive Recent Developments/Updates
 - 9.18.6 LiangDao Automotive Competitive Strengths & Weaknesses
- 9.19 LuminWave
 - 9.19.1 LuminWave Details
 - 9.19.2 LuminWave Major Business
 - 9.19.3 LuminWave Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.19.4 LuminWave Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 LuminWave Recent Developments/Updates
 - 9.19.6 LuminWave Competitive Strengths & Weaknesses
- 9.20 Neuvition
 - 9.20.1 Neuvition Details
 - 9.20.2 Neuvition Major Business
 - 9.20.3 Neuvition Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.20.4 Neuvition Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Neuvition Recent Developments/Updates

- 9.20.6 Neuvition Competitive Strengths & Weaknesses
- 9.21 Leishen Intelligence
 - 9.21.1 Leishen Intelligence Details
 - 9.21.2 Leishen Intelligence Major Business
 - 9.21.3 Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Product and Services
 - 9.21.4 Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Leishen Intelligence Recent Developments/Updates
 - 9.21.6 Leishen Intelligence Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automotive-Grade Pure Solid-State LiDAR Industry Chain
- 10.2 Automotive-Grade Pure Solid-State LiDAR Upstream Analysis
 - 10.2.1 Automotive-Grade Pure Solid-State LiDAR Core Raw Materials
 - 10.2.2 Main Manufacturers of Automotive-Grade Pure Solid-State LiDAR Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Automotive-Grade Pure Solid-State LiDAR Production Mode
- 10.6 Automotive-Grade Pure Solid-State LiDAR Procurement Model
- 10.7 Automotive-Grade Pure Solid-State LiDAR Industry Sales Model and Sales Channels
 - 10.7.1 Automotive-Grade Pure Solid-State LiDAR Sales Model
 - 10.7.2 Automotive-Grade Pure Solid-State LiDAR Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Automotive-Grade Pure Solid-State LiDAR Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Automotive-Grade Pure Solid-State LiDAR Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Automotive-Grade Pure Solid-State LiDAR Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Region (2021-2026)
- Table 5. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Region (2027-2032)
- Table 6. World Automotive-Grade Pure Solid-State LiDAR Production by Region (2021-2026) & (K Units)
- Table 7. World Automotive-Grade Pure Solid-State LiDAR Production by Region (2027-2032) & (K Units)
- Table 8. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Region (2021-2026)
- Table 9. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Region (2027-2032)
- Table 10. World Automotive-Grade Pure Solid-State LiDAR Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Automotive-Grade Pure Solid-State LiDAR Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Automotive-Grade Pure Solid-State LiDAR Major Market Trends
- Table 13. World Automotive-Grade Pure Solid-State LiDAR Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Automotive-Grade Pure Solid-State LiDAR Consumption by Region (2021-2026) & (K Units)
- Table 15. World Automotive-Grade Pure Solid-State LiDAR Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Automotive-Grade Pure Solid-State LiDAR Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Automotive-Grade Pure Solid-State LiDAR Producers in 2025
- Table 18. World Automotive-Grade Pure Solid-State LiDAR Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive-Grade Pure Solid-State LiDAR Producers in 2025

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

Table 21. Global Automotive-Grade Pure Solid-State LiDAR Company Evaluation Quadrant

Table 22. World Automotive-Grade Pure Solid-State LiDAR Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive-Grade Pure Solid-State LiDAR Production Site of Key Manufacturer

Table 24. Automotive-Grade Pure Solid-State LiDAR Market: Company Product Type Footprint

Table 25. Automotive-Grade Pure Solid-State LiDAR Market: Company Product Application Footprint

Table 26. Automotive-Grade Pure Solid-State LiDAR Competitive Factors

Table 27. Automotive-Grade Pure Solid-State LiDAR New Entrant and Capacity Expansion Plans

Table 28. Automotive-Grade Pure Solid-State LiDAR Mergers & Acquisitions Activity

Table 29. United States VS China Automotive-Grade Pure Solid-State LiDAR Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive-Grade Pure Solid-State LiDAR Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive-Grade Pure Solid-State LiDAR Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share (2021-2026)

Table 37. China Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive-Grade Pure Solid-State LiDAR Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share (2021-2026)

Table 47. World Automotive-Grade Pure Solid-State LiDAR Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive-Grade Pure Solid-State LiDAR Production by Type (2021-2026) & (K Units)

Table 49. World Automotive-Grade Pure Solid-State LiDAR Production by Type (2027-2032) & (K Units)

Table 50. World Automotive-Grade Pure Solid-State LiDAR Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive-Grade Pure Solid-State LiDAR Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Automotive-Grade Pure Solid-State LiDAR Production Value by Detection Range, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive-Grade Pure Solid-State LiDAR Production by Detection Range (2021-2026) & (K Units)

Table 56. World Automotive-Grade Pure Solid-State LiDAR Production by Detection Range (2027-2032) & (K Units)

Table 57. World Automotive-Grade Pure Solid-State LiDAR Production Value by Detection Range (2021-2026) & (USD Million)

Table 58. World Automotive-Grade Pure Solid-State LiDAR Production Value by Detection Range (2027-2032) & (USD Million)

Table 59. World Automotive-Grade Pure Solid-State LiDAR Average Price by Detection Range (2021-2026) & (US\$/Unit)

Table 60. World Automotive-Grade Pure Solid-State LiDAR Average Price by Detection Range (2027-2032) & (US\$/Unit)

Table 61. World Automotive-Grade Pure Solid-State LiDAR Production Value by Laser Wavelength, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive-Grade Pure Solid-State LiDAR Production by Laser Wavelength (2021-2026) & (K Units)

Table 63. World Automotive-Grade Pure Solid-State LiDAR Production by Laser Wavelength (2027-2032) & (K Units)

Table 64. World Automotive-Grade Pure Solid-State LiDAR Production Value by Laser Wavelength (2021-2026) & (USD Million)

Table 65. World Automotive-Grade Pure Solid-State LiDAR Production Value by Laser Wavelength (2027-2032) & (USD Million)

Table 66. World Automotive-Grade Pure Solid-State LiDAR Average Price by Laser Wavelength (2021-2026) & (US\$/Unit)

Table 67. World Automotive-Grade Pure Solid-State LiDAR Average Price by Laser Wavelength (2027-2032) & (US\$/Unit)

Table 68. World Automotive-Grade Pure Solid-State LiDAR Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive-Grade Pure Solid-State LiDAR Production by Application (2021-2026) & (K Units)

Table 70. World Automotive-Grade Pure Solid-State LiDAR Production by Application (2027-2032) & (K Units)

Table 71. World Automotive-Grade Pure Solid-State LiDAR Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive-Grade Pure Solid-State LiDAR Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Opsys-Tech Basic Information, Manufacturing Base and Competitors

Table 76. Opsys-Tech Major Business

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

Table 78. Opsys-Tech Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Opsys-Tech Recent Developments/Updates

- Table 80. Opsy-Tech Competitive Strengths & Weaknesses
- Table 81. XenomatiX Basic Information, Manufacturing Base and Competitors
- Table 82. XenomatiX Major Business
- Table 83. XenomatiX Automotive-Grade Pure Solid-State LiDAR Product and Services
- Table 84. XenomatiX Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. XenomatiX Recent Developments/Updates
- Table 86. XenomatiX Competitive Strengths & Weaknesses
- Table 87. Continental Basic Information, Manufacturing Base and Competitors
- Table 88. Continental Major Business
- Table 89. Continental Automotive-Grade Pure Solid-State LiDAR Product and Services
- Table 90. Continental Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Continental Recent Developments/Updates
- Table 92. Continental Competitive Strengths & Weaknesses
- Table 93. Quanergy Basic Information, Manufacturing Base and Competitors
- Table 94. Quanergy Major Business
- Table 95. Quanergy Automotive-Grade Pure Solid-State LiDAR Product and Services
- Table 96. Quanergy Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Quanergy Recent Developments/Updates
- Table 98. Quanergy Competitive Strengths & Weaknesses
- Table 99. LeddarTech Basic Information, Manufacturing Base and Competitors
- Table 100. LeddarTech Major Business
- Table 101. LeddarTech Automotive-Grade Pure Solid-State LiDAR Product and Services
- Table 102. LeddarTech Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. LeddarTech Recent Developments/Updates
- Table 104. LeddarTech Competitive Strengths & Weaknesses
- Table 105. Sense Photonics Basic Information, Manufacturing Base and Competitors
- Table 106. Sense Photonics Major Business
- Table 107. Sense Photonics Automotive-Grade Pure Solid-State LiDAR Product and Services
- Table 108. Sense Photonics Automotive-Grade Pure Solid-State LiDAR Production (K

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

Table 109. Sense Photonics Recent Developments/Updates

Table 110. Sense Photonics Competitive Strengths & Weaknesses

Table 111. PreAct Technologies Basic Information, Manufacturing Base and Competitors

Table 112. PreAct Technologies Major Business

Table 113. PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 114. PreAct Technologies Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. PreAct Technologies Recent Developments/Updates

Table 116. PreAct Technologies Competitive Strengths & Weaknesses

Table 117. Advanced Scientific Concepts LLC Basic Information, Manufacturing Base and Competitors

Table 118. Advanced Scientific Concepts LLC Major Business

Table 119. Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 120. Advanced Scientific Concepts LLC Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Advanced Scientific Concepts LLC Recent Developments/Updates

Table 122. Advanced Scientific Concepts LLC Competitive Strengths & Weaknesses

Table 123. Luminar Basic Information, Manufacturing Base and Competitors

Table 124. Luminar Major Business

Table 125. Luminar Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 126. Luminar Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Luminar Recent Developments/Updates

Table 128. Luminar Competitive Strengths & Weaknesses

Table 129. Ouster Basic Information, Manufacturing Base and Competitors

Table 130. Ouster Major Business

Table 131. Ouster Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 132. Ouster Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Ouster Recent Developments/Updates

Table 134. Ouster Competitive Strengths & Weaknesses

Table 135. Innoviz Basic Information, Manufacturing Base and Competitors

Table 136. Innoviz Major Business

Table 137. Innoviz Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 138. Innoviz Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Innoviz Recent Developments/Updates

Table 140. Innoviz Competitive Strengths & Weaknesses

Table 141. Valeo Basic Information, Manufacturing Base and Competitors

Table 142. Valeo Major Business

Table 143. Valeo Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 144. Valeo Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Valeo Recent Developments/Updates

Table 146. Valeo Competitive Strengths & Weaknesses

Table 147. ToFFuture Basic Information, Manufacturing Base and Competitors

Table 148. ToFFuture Major Business

Table 149. ToFFuture Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 150. ToFFuture Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. ToFFuture Recent Developments/Updates

Table 152. ToFFuture Competitive Strengths & Weaknesses

Table 153. Zvision Basic Information, Manufacturing Base and Competitors

Table 154. Zvision Major Business

Table 155. Zvision Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 156. Zvision Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Zvision Recent Developments/Updates

Table 158. Zvision Competitive Strengths & Weaknesses

Table 159. RoboSense Basic Information, Manufacturing Base and Competitors

Table 160. RoboSense Major Business

Table 161. RoboSense Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 162. RoboSense Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 163. RoboSense Recent Developments/Updates

Table 164. RoboSense Competitive Strengths & Weaknesses

Table 165. Hesai Technology Basic Information, Manufacturing Base and Competitors

Table 166. Hesai Technology Major Business

Table 167. Hesai Technology Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 168. Hesai Technology Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Hesai Technology Recent Developments/Updates

Table 170. Hesai Technology Competitive Strengths & Weaknesses

Table 171. LIVOX Basic Information, Manufacturing Base and Competitors

Table 172. LIVOX Major Business

Table 173. LIVOX Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 174. LIVOX Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. LIVOX Recent Developments/Updates

Table 176. LIVOX Competitive Strengths & Weaknesses

Table 177. LiangDao Automotive Basic Information, Manufacturing Base and Competitors

Table 178. LiangDao Automotive Major Business

Table 179. LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 180. LiangDao Automotive Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. LiangDao Automotive Recent Developments/Updates

Table 182. LiangDao Automotive Competitive Strengths & Weaknesses

Table 183. LuminWave Basic Information, Manufacturing Base and Competitors

Table 184. LuminWave Major Business

Table 185. LuminWave Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 186. LuminWave Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. LuminWave Recent Developments/Updates

Table 188. LuminWave Competitive Strengths & Weaknesses

Table 189. Neuvition Basic Information, Manufacturing Base and Competitors

Table 190. Neuvition Major Business

Table 191. Neuvition Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 192. Neuvition Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Neuvition Recent Developments/Updates

Table 194. Neuvition Competitive Strengths & Weaknesses

Table 195. Leishen Intelligence Basic Information, Manufacturing Base and Competitors

Table 196. Leishen Intelligence Major Business

Table 197. Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Product and Services

Table 198. Leishen Intelligence Automotive-Grade Pure Solid-State LiDAR Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Leishen Intelligence Recent Developments/Updates

Table 200. Leishen Intelligence Competitive Strengths & Weaknesses

Table 201. Global Key Players of Automotive-Grade Pure Solid-State LiDAR Upstream (Raw Materials)

Table 202. Global Automotive-Grade Pure Solid-State LiDAR Typical Customers

Table 203. Automotive-Grade Pure Solid-State LiDAR Typical Distributors

List Of Figures

LIST OF FIGURES

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

Figure 2. World Automotive-Grade Pure Solid-State LiDAR Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive-Grade Pure Solid-State LiDAR Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 5. World Automotive-Grade Pure Solid-State LiDAR Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Region (2021-2032)

Figure 8. North America Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 9. Europe Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 10. China Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 11. Japan Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 13. India Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 14. Mexico Automotive-Grade Pure Solid-State LiDAR Production (2021-2032) & (K Units)

Figure 15. Automotive-Grade Pure Solid-State LiDAR Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)

Figure 18. World Automotive-Grade Pure Solid-State LiDAR Consumption Market Share by Region (2021-2032)

Figure 19. United States Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)

- Figure 20. China Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 21. Europe Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 22. Japan Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 23. South Korea Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 24. ASEAN Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 25. India Automotive-Grade Pure Solid-State LiDAR Consumption (2021-2032) & (K Units)
- Figure 26. Producer Shipments of Automotive-Grade Pure Solid-State LiDAR by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 27. Global Four-firm Concentration Ratios (CR4) for Automotive-Grade Pure Solid-State LiDAR Markets in 2025
- Figure 28. Global Four-firm Concentration Ratios (CR8) for Automotive-Grade Pure Solid-State LiDAR Markets in 2025
- Figure 29. United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States VS China: Automotive-Grade Pure Solid-State LiDAR Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 31. United States VS China: Automotive-Grade Pure Solid-State LiDAR Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 32. United States Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share 2025
- Figure 33. China Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share 2025
- Figure 34. Rest of World Based Manufacturers Automotive-Grade Pure Solid-State LiDAR Production Market Share 2025
- Figure 35. World Automotive-Grade Pure Solid-State LiDAR Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 36. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Type in 2025
- Figure 37. Flash LiDAR
- Figure 38. Optical Phased Array LiDAR
- Figure 39. Others
- Figure 40. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Type (2021-2032)

Figure 41. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Type (2021-2032)

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

Figure 43. World Automotive-Grade Pure Solid-State LiDAR Production Value by Detection Range, (USD Million), 2021 & 2025 & 2032

Figure 44. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Detection Range in 2025

Figure 45. 100-200 m

Figure 46. 200-300 m

Figure 47. Others

Figure 48. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Detection Range (2021-2032)

Figure 49. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Detection Range (2021-2032)

Figure 50. World Automotive-Grade Pure Solid-State LiDAR Average Price by Detection Range (2021-2032) & (US\$/Unit)

Figure 51. World Automotive-Grade Pure Solid-State LiDAR Production Value by Laser Wavelength, (USD Million), 2021 & 2025 & 2032

Figure 52. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Laser Wavelength in 2025

Figure 53. 905 nm

Figure 54. 1550 nm

Figure 55. Others

Figure 56. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Laser Wavelength (2021-2032)

Figure 57. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Laser Wavelength (2021-2032)

Figure 58. World Automotive-Grade Pure Solid-State LiDAR Average Price by Laser Wavelength (2021-2032) & (US\$/Unit)

Figure 59. World Automotive-Grade Pure Solid-State LiDAR Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Automotive-Grade Pure Solid-State LiDAR Production Value Market Share by Application in 2025

Figure 61. Passenger Vehicles

Figure 62. Commercial Vehicles

Figure 63. World Automotive-Grade Pure Solid-State LiDAR Production Market Share by Application (2021-2032)

Figure 64. World Automotive-Grade Pure Solid-State LiDAR Production Value Market

Share by Application (2021-2032)

Figure 65. World Automotive-Grade Pure Solid-State LiDAR Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Automotive-Grade Pure Solid-State LiDAR Industry Chain

Figure 67. Automotive-Grade Pure Solid-State LiDAR Procurement Model

Figure 68. Automotive-Grade Pure Solid-State LiDAR Sales Model

Figure 69. Automotive-Grade Pure Solid-State LiDAR Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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