

Automotive LiDAR - Company Evaluation Report, 2024

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Abstracts

The Automotive Lidar Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Automotive Lidar. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 13 Automotive Lidar Companies were categorized and recognized as quadrant leaders.

The automotive LiDAR market is experiencing notable progress, particularly with the emergence of advanced technologies such as 4D LiDAR. In January 2024, Aeva Inc. (US) introduced its Atlas 4D FMCW LiDAR, marking a significant milestone in the field, and named Daimler Trucks AG (Germany) as its first customer. Likewise, in December 2024, Aeva expanded its partnership with SICK AG (Germany) to incorporate its FMCW technology into SICK's high-performance sensors, highlighting the increasing adoption of sophisticated LiDAR technologies across diverse applications.

An increasing number of vehicle models are being equipped with state-of-the-art LiDAR systems, underlining the industry's focus on advancing autonomous driving features. For instance, Mercedes-Benz Group AG (Germany) includes Level 3 DRIVE PILOT systems featuring SCALA LiDAR from Valeo in its EQS and S-Class sedans—demonstrating how leading automakers are embracing LiDAR to fulfill the rising demand for greater driving autonomy. This trend is projected to persist. For example, the 2025 BYD Han EV is anticipated to incorporate LiDAR from RoboSense (China), and both the BMW 7 Series and i7 are expected to feature a single LiDAR sensor from Innoviz Technologies Ltd. (Israel).

The 360 Quadrant maps the Automotive Lidar companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Automotive Lidar quadrant. The top criteria for product

footprint evaluation included By ICE VEHICLE TYPE (Passenger Car, Light Commercial Vehicle (LCV), Heavy Commercial Vehicle (HCV), Insights from Industry Experts), By ELECTRIC VEHICLE TYPE (Battery Electric Vehicle (BEV), Fuel Cell Electric Vehicle (FCEV), Plug-in Hybrid Electric Vehicle (PHEV), Hybrid Electric Vehicle (HEV), Insights from Industry Experts), By IMAGE TYPE (2D, 3D, Insights from Industry Experts), By LASER WAVELENGTH (Near-infrared, Short-wave Infrared, Long-wave Infrared, Insights from Industry Experts), By LEVEL OF AUTONOMY (Semi-autonomous, Autonomous, Insights from Industry Experts), By LOCATION (Bumper & Grille, Headlight & Taillight, Roof & Upper Pillar, Other Locations, Insights from Industry Experts), By MEASUREMENT PROCESS (Time of Flight (TOF), Frequency-measurement Continuous Wave (FMCW), Insights from Industry Experts), By TECHNOLOGY (Mechanical Lidar, Solid-state Lidar, Insights from Industry Experts), and By RANGE (Short- & Mid-range (170 Meters and Below), Long-range (Above 170 Meters), Insights from Industry Experts).

Key Players

Key players in the Automotive Lidar market include major global corporations and specialized innovators such as Honeywell International Inc., Safran, Te Connectivity Ltd., Meggitt Plc, Ametek Inc., Lockheed Martin Corporation, Woodward, Rtx, Thales, L3HARRIS Technologies, Inc., The Bosch Group, Trimble Inc., Curtiss-Wright Corporation, Eaton Corporation, Crane Aerospace & Electronics, Stellar Technology, Amphenol Corporation, Tdk Corporation, Ultra Precision Control Systems, Vectornav Technologies Llc, and Emcore Corporation. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top Three Companies Analysis

RoboSense Technology Co., Ltd.

RoboSense stands out with a diverse product portfolio that includes solid-state and hybrid LiDAR solutions. The company's technological expertise is evident in its strategic partnerships and high-profile orders, emphasizing its leadership in the LiDAR market. The firm's adaptive strategies and relentless pursuit of innovation illustrate a solid market positioning and a robust company ranking.

Hesai Group

Hesai Group is distinguished by its wide LiDAR product portfolio, supporting various automotive applications. The company's market presence is reinforced by partnerships with industry leaders like Baidu, indicating its strategic significance in the autonomous vehicle sector. However, its market share could face challenges due to competitive pressures and regional market concentration.

Luminar Technologies, Inc.

Luminar Technologies excels with its vision-based LiDAR and machine perception technologies, which are crucial for self-driving vehicles. The company's strong brand and collaborations with major OEMs enhance its market presence and product portfolio. Luminar's focused growth strategy, through organic development and strategic alliances, supports its competitive positioning and market share.

Contents

1 INTRODUCTION

- 1.1 MARKET DEFINITION
- 1.2 INCLUSIONS & EXCLUSIONS
- 1.3 STAKEHOLDERS

2 EXECUTIVE SUMMARY

3 MARKET OVERVIEW

- 3.1 INTRODUCTION
- 3.2 MARKET DYNAMICS
 - 3.2.1 DRIVERS
 - 3.2.1.1 Rapid advancements in LiDAR technology
 - 3.2.1.2 Focus of OEMs on testing and deploying vehicles with high level of autonomy
 - 3.2.1.3 Stringent government regulations for integrating advanced safety technologies
 - 3.2.2 RESTRAINTS
 - 3.2.2.1 High cost of LiDAR
 - 3.2.2.2 Emergence of alternative technologies
 - 3.2.3 OPPORTUNITIES
 - 3.2.3.1 Rise of robotaxi and ride-hailing services
 - 3.2.3.2 Automation of commercial vehicles
 - 3.2.4 CHALLENGES
 - 3.2.4.1 Fluctuating prices of raw materials and supply chain disruptions
 - 3.2.4.2 Poor performance in challenging weather conditions
- 3.3 TRENDS & DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 3.4 IMPACT OF AI ON AUTOMOTIVE LIDAR MARKET
- 3.5 ECOSYSTEM ANALYSIS
- 3.6 VALUE CHAIN ANALYSIS
- 3.7 PATENT ANALYSIS
- 3.8 TECHNOLOGY ANALYSIS
 - 3.8.1 KEY TECHNOLOGIES
 - 3.8.1.1 Frequency-modulated continuous wave (FMCW) LiDAR
 - 3.8.1.2 4D LiDAR
 - 3.8.2 COMPLEMENTARY TECHNOLOGIES
 - 3.8.2.1 Sensor suite

- 3.8.2.2 Flash LiDAR technology
- 3.8.3 ADJACENT TECHNOLOGIES
 - 3.8.3.1 Perception software
 - 3.8.3.2 Simultaneous localization and mapping (SLAM)
 - 3.8.3.3 Optical beam-steering
- 3.9 OEM ANALYSIS
 - 3.9.1 INTEGRATION OF LIDAR SOLUTIONS INTO VEHICLES BY OEMS
 - 3.9.2 INSTALLATION OF LIDAR SYSTEMS IN PASSENGER CARS
 - 3.9.3 DESIGN WINS FOR KEY LIDAR COMPANIES
 - 3.9.4 AUTOMOTIVE LIDAR MARKET: SUPPLIER ANALYSIS

4 COMPETITIVE LANDSCAPE

- 4.1 INTRODUCTION
- 4.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2022–2024
- 4.3 REVENUE ANALYSIS
- 4.4 MARKET SHARE ANALYSIS
- 4.5 COMPANY VALUATION AND FINANCIAL METRICS
- 4.6 BRAND/PRODUCT COMPARISON
- 4.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024
 - 4.7.1 STARS
 - 4.7.2 EMERGING LEADERS
 - 4.7.3 PERVASIVE PLAYERS
 - 4.7.4 PARTICIPANTS
 - 4.7.5 COMPANY FOOTPRINT
 - 4.7.5.1 Company footprint
 - 4.7.5.2 Region footprint
 - 4.7.5.3 Technology footprint
 - 4.7.5.4 Image type footprint
 - 4.7.5.5 Range footprint
- 4.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024
 - 4.8.1 PROGRESSIVE COMPANIES
 - 4.8.2 RESPONSIVE COMPANIES
 - 4.8.3 DYNAMIC COMPANIES
 - 4.8.4 STARTING BLOCKS
 - 4.8.5 COMPETITIVE BENCHMARKING
 - 4.8.5.1 List of startups/SMEs
 - 4.8.5.2 Competitive benchmarking of startups/SMEs
- 4.9 COMPETITIVE SCENARIO

- 4.9.1 PRODUCT LAUNCHES
- 4.9.2 DEALS
- 4.9.3 EXPANSION
- 4.9.4 OTHER DEVELOPMENTS

5 COMPANY PROFILES

5.1 KEY PLAYERS

5.1.1 ROBOSENSE

- 5.1.1.1 Business overview
- 5.1.1.2 Products/Solutions offered
- 5.1.1.3 Recent developments
- 5.1.1.4 MnM view
 - 5.1.1.4.1 Key strengths
 - 5.1.1.4.2 Strategic choices
 - 5.1.1.4.3 Weaknesses and competitive threats

5.1.2 HESAI GROUP

- 5.1.2.1 Business overview
- 5.1.2.2 Products/Solutions offered
- 5.1.2.3 Recent developments
- 5.1.2.4 MnM view
 - 5.1.2.4.1 Key strengths
 - 5.1.2.4.2 Strategic choices
 - 5.1.2.4.3 Weaknesses and competitive threats

5.1.3 LUMINAR TECHNOLOGIES, INC.

- 5.1.3.1 Business overview
- 5.1.3.2 Products/Solutions offered
- 5.1.3.3 Recent developments
- 5.1.3.4 MnM view
 - 5.1.3.4.1 Key strengths
 - 5.1.3.4.2 Strategic choices
 - 5.1.3.4.3 Weaknesses and competitive threats

5.1.4 SEYOND

- 5.1.4.1 Business overview
- 5.1.4.2 Products/Solutions offered
- 5.1.4.3 Recent developments
- 5.1.4.4 MnM view
 - 5.1.4.4.1 Key strengths
 - 5.1.4.4.2 Strategic choices

- 5.1.4.4.3 Weaknesses and competitive threats
- 5.1.5 HUAWEI TECHNOLOGIES CO., LTD.
 - 5.1.5.1 Business overview
 - 5.1.5.2 Products/Solutions offered
 - 5.1.5.3 Recent developments
 - 5.1.5.4 MnM view
 - 5.1.5.4.1 Key strengths
 - 5.1.5.4.2 Strategic choices
 - 5.1.5.4.3 Weaknesses and competitive threats
- 5.1.6 INNOVIZ TECHNOLOGIES LTD
 - 5.1.6.1 Business overview
 - 5.1.6.2 Products/Solutions offered
 - 5.1.6.3 Recent developments
- 5.1.7 VALEO
 - 5.1.7.1 Business overview
 - 5.1.7.2 Products/Solutions offered
 - 5.1.7.3 Recent developments
- 5.1.8 OUSTER INC.
 - 5.1.8.1 Business overview
 - 5.1.8.2 Products/Solutions offered
 - 5.1.8.3 Recent developments
- 5.1.9 DENSO CORPORATION
 - 5.1.9.1 Business overview
 - 5.1.9.2 Products/Solutions offered
 - 5.1.9.3 Recent developments
- 5.1.10 CONTINENTAL AG
 - 5.1.10.1 Business overview
 - 5.1.10.2 Products/Solutions offered
 - 5.1.10.3 Recent developments
- 5.1.11 ZF FRIEDRICHSHAFEN AG
 - 5.1.11.1 Business overview
 - 5.1.11.2 Products/Solutions offered
 - 5.1.11.3 Recent developments
- 5.1.12 APTIV
 - 5.1.12.1 Business overview
 - 5.1.12.2 Products/Solutions offered
 - 5.1.12.3 Recent developments
- 5.1.13 MAGNA INTERNATIONAL INC.
 - 5.1.13.1 Business overview

5.1.13.2 Products/Solutions offered

5.1.13.3 Recent developments

5.2 OTHER PLAYERS

5.2.1 INFINEON TECHNOLOGIES AG

5.2.2 RENESAS ELECTRONICS CORPORATION

5.2.3 CEPTON, INC.

5.2.4 QUANERGY SOLUTIONS, INC.

5.2.5 MARELLI HOLDINGS CO., LTD.

5.2.6 AEVA INC.

5.2.7 BLICKFELD GMBH

5.2.8 AEYE, INC.

5.2.9 LIVOX

5.2.10 HEXAGON AB

6 APPENDIX

6.1 RESEARCH METHODOLOGY

6.1.1 RESEARCH DATA

6.1.1.1 Secondary data

6.1.1.2 Primary data

6.1.2 RESEARCH ASSUMPTIONS

6.1.3 RESEARCH LIMITATIONS

6.1.4 RISK ASSESSMENT

6.2 COMPANY EVALUATION MATRIX: METHODOLOGY

6.3 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1	AUTOMOTIVE LIDAR MARKET DEFINITION, BY TECHNOLOGY
TABLE 2	AUTOMOTIVE LIDAR MARKET DEFINITION, BY ICE VEHICLE TYPE
TABLE 3	AUTOMOTIVE LIDAR MARKET DEFINITION, BY LASER WAVELENGTH
TABLE 4	AUTOMOTIVE LIDAR MARKET DEFINITION, BY ELECTRIC VEHICLE TYPE
TABLE 5	AUTOMOTIVE LIDAR MARKET DEFINITION, BY LEVEL OF AUTONOMY
TABLE 6	AUTOMOTIVE LIDAR MARKET DEFINITION, BY IMAGE TYPE
TABLE 7	PRICE OF LIVOX LIDAR MODELS, BY RANGE
TABLE 8	NUMBER OF LIDAR SYSTEMS USED BY ROBOTAXI MANUFACTURERS
TABLE 9	IMPACT OF MARKET DYNAMICS ON AUTOMOTIVE LIDAR MARKET
TABLE 10	ROLE OF PLAYERS IN MARKET ECOSYSTEM
TABLE 11	PATENTS GRANTED, 2022–2024
TABLE 12	COMPARISON BETWEEN FMCW AND TOF LIDARS
TABLE 13	AUTOMOTIVE LIDAR MARKET: SUPPLIER ANALYSIS, 2024–2025
TABLE 14	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2022–2024
TABLE 15	MARKET SHARE ANALYSIS, 2023
TABLE 16	REGION FOOTPRINT
TABLE 17	TECHNOLOGY FOOTPRINT
TABLE 18	IMAGE TYPE FOOTPRINT
TABLE 19	RANGE FOOTPRINT
TABLE 20	LIST OF STARTUPS/SMES
TABLE 21	COMPETITIVE BENCHMARKING OF STARTUPS/SMES
TABLE 22	AUTOMOTIVE LIDAR MARKET: PRODUCT LAUNCHES/DEVELOPMENTS, JANUARY 2022–OCTOBER 2024
TABLE 23	AUTOMOTIVE LIDAR MARKET: DEALS, JANUARY 2022–OCTOBER 2024
TABLE 24	AUTOMOTIVE LIDAR MARKET: EXPANSION, JANUARY 2022–OCTOBER 2024
TABLE 25	AUTOMOTIVE LIDAR MARKET: OTHER DEVELOPMENTS, JANUARY 2022–OCTOBER 2024
TABLE 26	ROBOSENSE: COMPANY OVERVIEW
TABLE 27	VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY ROBOSENSE, BY OEM, 2022–2025
TABLE 28	ROBOSENSE: PRODUCTS/SOLUTIONS OFFERED
TABLE 29	ROBOSENSE: PRODUCT LAUNCHES/DEVELOPMENTS
TABLE 30	ROBOSENSE: DEALS

TABLE 31 ROBOSENSE: OTHER DEVELOPMENTS

TABLE 32 HESAI GROUP: COMPANY OVERVIEW

TABLE 33 VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY HESAI, BY OEM, 2022–2024

TABLE 34 HESAI GROUP: PRODUCTS/SOLUTIONS OFFERED

TABLE 35 HESAI GROUP: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 36 HESAI GROUP: DEALS

TABLE 37 HESAI GROUP: OTHER DEVELOPMENTS

TABLE 38 LUMINAR TECHNOLOGIES, INC.: COMPANY OVERVIEW

TABLE 39 VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY LUMINAR TECHNOLOGIES, BY OEM, 2022–2024

TABLE 40 LUMINAR TECHNOLOGIES, INC.: PRODUCTS/SOLUTIONS OFFERED

TABLE 41 LUMINAR TECHNOLOGIES, INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 42 LUMINAR TECHNOLOGIES, INC.: DEALS

TABLE 43 LUMINAR TECHNOLOGIES, INC.: EXPANSION

TABLE 44 SEYOND: COMPANY OVERVIEW

TABLE 45 NIO VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY SEYOND, 2022–2024

TABLE 46 SEYOND: PRODUCTS/SOLUTIONS OFFERED

TABLE 47 SEYOND: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 48 SEYOND: DEALS

TABLE 49 SEYOND: OTHER DEVELOPMENTS

TABLE 50 HUAWEI TECHNOLOGIES CO., LTD.: COMPANY OVERVIEW

TABLE 51 VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY HUAWEI TECHNOLOGIES, BY OEM, 2022–2024

TABLE 52 HUAWEI TECHNOLOGIES CO., LTD.: PRODUCTS/SOLUTIONS OFFERED

TABLE 53 HUAWEI TECHNOLOGIES CO., LTD.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 54 HUAWEI TECHNOLOGIES CO., LTD.: EXPANSION

TABLE 55 HUAWEI TECHNOLOGIES CO., LTD.: OTHER DEVELOPMENTS

TABLE 56 INNOVIZ TECHNOLOGIES LTD: COMPANY OVERVIEW

TABLE 57 VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY INNOVIZ TECHNOLOGIES, BY OEM, 2022–2024

TABLE 58 INNOVIZ TECHNOLOGIES LTD: PRODUCTS/SOLUTIONS OFFERED

TABLE 59 INNOVIZ TECHNOLOGIES LTD: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 60 INNOVIZ TECHNOLOGIES LTD: DEALS

TABLE 61 INNOVIZ TECHNOLOGIES LTD: EXPANSION

TABLE 62 INNOVIZ TECHNOLOGIES LTD: OTHER DEVELOPMENTS

TABLE 63 VALEO: COMPANY OVERVIEW

TABLE 64 VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY VALEO, BY OEM, 2022–2024

TABLE 65 VALEO: PRODUCTS/SOLUTIONS OFFERED

TABLE 66 VALEO: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 67 VALEO: DEALS

TABLE 68 VALEO: EXPANSION

TABLE 69 VALEO: OTHER DEVELOPMENTS

TABLE 70 OUSTER INC.: COMPANY OVERVIEW

TABLE 71 OUSTER INC.: PRODUCTS/SOLUTIONS OFFERED

TABLE 72 OUSTER INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 73 OUSTER INC.: DEALS

TABLE 74 OUSTER INC.: OTHER DEVELOPMENTS

TABLE 75 DENSO CORPORATION: COMPANY OVERVIEW

TABLE 76 TOYOTA VEHICLE MODELS EQUIPPED WITH LIDAR OFFERED BY DENSO CORPORATION, 2022

TABLE 77 DENSO CORPORATION: PRODUCTS/SOLUTIONS OFFERED

TABLE 78 DENSO CORPORATION: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 79 DENSO CORPORATION: DEALS

TABLE 80 DENSO CORPORATION: EXPANSION

TABLE 81 DENSO CORPORATION: OTHER DEVELOPMENTS

TABLE 82 CONTINENTAL AG: COMPANY OVERVIEW

TABLE 83 CONTINENTAL AG: PRODUCTS/SOLUTIONS OFFERED

TABLE 84 CONTINENTAL AG: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 85 CONTINENTAL AG: DEALS

TABLE 86 CONTINENTAL AG: EXPANSION

TABLE 87 CONTINENTAL AG: OTHER DEVELOPMENTS

TABLE 88 ZF FRIEDRICHSHAFEN AG: COMPANY OVERVIEW

TABLE 89 ZF FRIEDRICHSHAFEN AG: PRODUCTS/SOLUTIONS OFFERED

TABLE 90 ZF FRIEDRICHSHAFEN AG: DEALS

TABLE 91 ZF FRIEDRICHSHAFEN AG: EXPANSION

TABLE 92 ZF FRIEDRICHSHAFEN AG: OTHER DEVELOPMENTS

TABLE 93 APTIV: COMPANY OVERVIEW

TABLE 94 APTIV: PRODUCTS/SOLUTIONS OFFERED

TABLE 95 APTIV: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 96 APTIV: DEALS

TABLE 97 APTIV: EXPANSION

TABLE 98 APTIV: OTHER DEVELOPMENTS

TABLE 99 MAGNA INTERNATIONAL INC.: COMPANY OVERVIEW

TABLE 100 MAGNA INTERNATIONAL INC.: PRODUCTS/SOLUTIONS OFFERED

TABLE 101 MAGNA INTERNATIONAL INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 102 MAGNA INTERNATIONAL INC.: DEALS

TABLE 103 MAGNA INTERNATIONAL INC.: EXPANSION

TABLE 104 MAGNA INTERNATIONAL INC.: OTHER DEVELOPMENTS

TABLE 105 INFINEON TECHNOLOGIES AG: COMPANY OVERVIEW

TABLE 106 RENESAS ELECTRONICS CORPORATION: COMPANY OVERVIEW

TABLE 107 MOTHERSON: COMPANY OVERVIEW

TABLE 108 QUANERGY SOLUTIONS, INC.: COMPANY OVERVIEW

TABLE 109 MARELLI HOLDINGS CO., LTD.: COMPANY OVERVIEW

TABLE 110 AEVA INC.: COMPANY OVERVIEW

TABLE 111 BLICKFELD GMBH: COMPANY OVERVIEW

TABLE 112 AEYE, INC.: COMPANY OVERVIEW

TABLE 113 LIVOX: COMPANY OVERVIEW

TABLE 114 HEXAGON AB: COMPANY OVERVIEW

LIST OF TABLES

FIGURE 1 AUTOMOTIVE LIDAR MARKET OVERVIEW

FIGURE 2 ASIA PACIFIC TO ACCOUNT FOR LARGEST SHARE BY 2030

FIGURE 3 PASSENGER CAR SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

FIGURE 4 AUTOMOTIVE LIDAR MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 5 EFFECT OF SOLAR LOADING ON AMCW AND FMCW LIDAR SYSTEMS

FIGURE 6 GENERAL SAFETY REGULATIONS (GSR 2) IN EUROPE

FIGURE 7 COMPARISON BETWEEN CAMERA, FMCW LIDAR, AND IMAGE RADAR

FIGURE 8 FEATURES OF WERIDE'S GXR ROBOTAXI

FIGURE 9 POPULAR ROBOTAXIS OPERATIONAL ACROSS MAJOR CITIES

FIGURE 10 SENSOR MODULES DEPLOYED IN AUTONOMOUS TRUCKS

FIGURE 11 COMPARISON BETWEEN PERFORMANCE METRICS OF CAMERA, RADAR, AND LIDAR

FIGURE 12 TRENDS & DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 13 ECOSYSTEM ANALYSIS

FIGURE 14 VALUE CHAIN ANALYSIS

FIGURE 15 PATENT ANALYSIS, 2014–2023

FIGURE 16 FEATURES OF MICROVISION'S PERCEPTION SOFTWARE
FIGURE 17 LM10: LUMOTIVE'S OPTICAL BEAM STEERING-BASED LIDAR
FIGURE 18 LCM CHIP: PROJECTED ROADMAP
FIGURE 19 INTEGRATION OF LIDAR SOLUTIONS INTO VEHICLES BY OEMS
FIGURE 20 INSTALLATION OF LIDAR SYSTEMS IN PASSENGER CARS
FIGURE 21 DESIGN WINS FOR KEY LIDAR COMPANIES
FIGURE 22 REVENUE ANALYSIS, 2019–2023 (USD MILLION)
FIGURE 23 MARKET SHARE ANALYSIS, 2023
FIGURE 24 COMPANY VALUATION OF KEY PLAYERS
FIGURE 25 EV/EBITDA OF KEY PLAYERS
FIGURE 26 BRAND/PRODUCT COMPARISON
FIGURE 27 AUTOMOTIVE LIDAR MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2024
FIGURE 28 COMPANY FOOTPRINT
FIGURE 29 AUTOMOTIVE LIDAR MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2024
FIGURE 30 ROBOSENSE: COMPANY SNAPSHOT
FIGURE 31 HESAI GROUP: COMPANY SNAPSHOT
FIGURE 32 LUMINAR TECHNOLOGIES, INC.: COMPANY SNAPSHOT
FIGURE 33 LUMINAR'S ECOSYSTEM OF EXISTING AND TARGET PARTNERS
FIGURE 34 LUMINAR TECHNOLOGIES, INC.: R&D AND BUSINESS STRATEGIES
FIGURE 35 SEYOND: COMPANY SNAPSHOT
FIGURE 36 HUAWEI TECHNOLOGIES CO., LTD.: COMPANY SNAPSHOT
FIGURE 37 INNOVIZ TECHNOLOGIES LTD: COMPANY SNAPSHOT
FIGURE 38 VALEO: COMPANY SNAPSHOT
FIGURE 39 VALEO: R&D CENTERS
FIGURE 40 OUSTER INC.: COMPANY SNAPSHOT
FIGURE 41 DENSO CORPORATION: COMPANY SNAPSHOT
FIGURE 42 CONTINENTAL AG: COMPANY SNAPSHOT
FIGURE 43 CONTINENTAL AG: GLOBAL PRESENCE, 2023
FIGURE 44 ZF FRIEDRICHSHAFEN AG: COMPANY SNAPSHOT
FIGURE 45 APTIV: COMPANY SNAPSHOT
FIGURE 46 APTIV: SENSOR SOLUTIONS FOR AUTONOMOUS VEHICLES, BY LEVEL OF AUTONOMY
FIGURE 47 MAGNA INTERNATIONAL INC.: COMPANY SNAPSHOT
FIGURE 48 RESEARCH DESIGN

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