

# **LiDAR Sensor Automotive Market by Technology (Mechanical, and Solid State), Application (Semi-Autonomous, and Autonomous), Location (Bumper & Grill, Headlight & Taillight, Roof & Upper Pillar), Image Type (2D, and 3D), Vehicle Type - Global Forecast to 2030**

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## **Abstracts**

“Increasing stringency in safety regulations and a growing focus on autonomous and semi-autonomous cars to fuel the demand for automotive LiDAR”

The global LiDAR sensor automotive market is projected to reach USD 735.0 million by 2025, growing at a CAGR of 28.32%, from 2025 to 2030, owing to the rising government regulations for vehicle safety and increasing adoption of ADAS technology by OEMs. A rising trend of autonomous and semi-autonomous vehicles using automotive LiDAR systems is also an important driver which will fuel demand. However, the high cost of installation of LiDAR sensor-based applications results in an increase in the overall cost of the vehicle.

“The autonomous vehicles segment is estimated to be the fastest growing segment”

The autonomous vehicles segment is estimated to be the fastest growing segment of the LiDAR sensor automotive market in 2025. Major OEMs like General Motors Company, Audi, Ford, and the Volvo Group are developing and innovating fully autonomous driving technologies with the help of LiDAR technology.

“The solid state LiDAR segment is estimated to be the fastest growing segment”

The solid state LiDAR type segment is estimated to hold the largest market share during the forecast period. The solid state LiDAR is smaller, lighter, and more cost effective than the mechanical/scanning LiDAR. The reducing cost of components along with the increased participation of major players across the LiDAR value chain has also helped reduce the overall cost of solid state LiDAR features.

“The European market is estimated to be the fastest growing market in terms of volume”

In 2025, the fastest growing LiDAR sensor for automotive market, by region, is expected to be the European market, which is estimated to hold a majority of the market share of the global LiDAR sensor automotive market, by value and volume. The European Union is also in favour of legalizing the use of LiDAR-based ADAS applications to increase vehicle safety. Autonomous vehicles are already being tested in several European countries, such as Germany and France. This is also driving the LiDAR sensor-based ADAS application market in Europe, which will ultimately impact the global market.

The study contains insights provided by various industry experts, ranging from LiDAR manufacturers to automobile OEMs and various automotive associations. The break-up of the primaries is as follows:

By Company Type: Tier I- 67%, Tier II- 25%, and Tier III- 8%

By Designation: C-Level- 53%, D-Level- 34%, and Manager Level- 13%

By Region: North America- 30%, Asia-Pacific- 40%, Europe- 22%, and RoW- 8%

The players profiled in the report are:

Continental AG

Delphi Automotive, PLC

First Sensor AG

Infineon Technologies AG

Innoviz Technologies, Ltd.

LeddarTech, Inc.

Quanergy Systems, Inc.

Texas Instruments, Inc.

Velodyne LiDAR, Inc.

ZF Friedrichshafen AG

## Research Coverage

The report covers the LiDAR sensor automotive market by technology (mechanical and solid state), application (semi-autonomous and autonomous), location (bumper and grill, headlight and taillight, roof and upper pillar, and others), image type, vehicle type, and region—global forecast to 2030. The report covers the LiDAR sensor automotive market in terms of volume (thousand units) and value (USD million).

## Reasons to Buy the Report:

The report provides insights about the following points:

**Market Penetration:** Comprehensive information about automotive LiDAR offered by the top players in the industry

**Regulatory Framework:** Detailed insights into stringent safety norms leading to the application of LiDAR-based ADAS features and the effect of the regulations on the market

**Market Development:** Comprehensive information about various LiDAR technology trends. The report analyzes the markets for various automotive LiDAR sensor technologies across the countries

**Market Diversification:** Exhaustive information about emerging technologies, recent developments, and investments in the global automotive LiDAR sensor market

**Competitive Assessment:** In-depth assessment of strategies, services, and

manufacturing capabilities of leading players in the global automotive LiDAR sensor market

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
  - 1.3.1 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 PACKAGE SIZE
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
- 2.2 SECONDARY DATA
  - 2.2.1 KEY SECONDARY SOURCES
- 2.3 DATA FROM SECONDARY SOURCES
- 2.4 PRIMARY DATA
  - 2.4.1 SAMPLING TECHNIQUES & DATA COLLECTION METHODS
  - 2.4.2 PRIMARY PARTICIPANTS
- 2.5 FACTOR ANALYSIS
  - 2.5.1 INTRODUCTION
  - 2.5.2 DEMAND SIDE ANALYSIS
    - 2.5.2.1 Growth in luxury vehicle sales
    - 2.5.2.2 Added advantage over current generation of advanced technologies
  - 2.5.3 SUPPLY SIDE ANALYSIS
    - 2.5.3.1 Rising demand for safety, convenience, and comfort applications in vehicle
    - 2.5.3.2 Structural uncertainties in LiDAR system placement/location
- 2.6 MARKET SIZE ESTIMATION
- 2.7 DATA TRIANGULATION
- 2.8 ASSUMPTIONS

### 3 EXECUTIVE SUMMARY

- 3.1 INTRODUCTION

### 4 PREMIUM INSIGHTS

#### 4.1 ATTRACTIVE OPPORTUNITIES IN THE GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET

#### 4.2 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2025 - 2030

#### 4.3 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET SHARE, BY LOCATION, 2025 VS 2030

#### 4.4 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET SHARE, BY COUNTRY, CAGR, 2025 - 2030

#### 4.5 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY (VALUE), 2025 - 2030

#### 4.6 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION (VALUE), 2025 - 2030

### 5 MARKET OVERVIEW

#### 5.1 INTRODUCTION

#### 5.2 MARKET SEGMENTATION

##### 5.2.1 LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY

##### 5.2.2 LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE

##### 5.2.3 LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE

##### 5.2.4 LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION

##### 5.2.5 LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION

#### 5.3 MARKET DYNAMICS

##### 5.3.1 DRIVERS

###### 5.3.1.1 Technological Superiority of LiDAR

###### 5.3.1.2 Rising trend for semi-autonomous vehicles

###### 5.3.1.3 Rising government regulations for vehicle safety and increase in adoption of ADAS technology by OEMs

##### 5.3.2 RESTRAINTS

###### 5.3.2.1 High cost of LiDAR results in increase in overall cost of the vehicle

##### 5.3.3 OPPORTUNITIES

###### 5.3.3.1 Autonomous vehicle offer new opportunities

###### 5.3.3.2 Sensor fusion

##### 5.3.4 CHALLENGES

###### 5.3.4.1 Environment constraints pose a challenge for the use of LiDAR

###### 5.3.4.2 Technology Integration

#### 5.4 PORTER'S FIVE FORCES ANALYSIS

##### 5.4.1 COMPETITIVE RIVALRY

##### 5.4.2 THREAT OF SUBSTITUTES

- 5.4.3 BARGAINING POWER OF BUYER
- 5.4.4 BARGAINING POWER OF SUPPLIERS
- 5.4.5 THREAT OF NEW ENTRANT

## **6 TECHNOLOGICAL OVERVIEW**

- 6.1 INTRODUCTION
  - 6.1.1 TECHNOLOGICAL EVOLUTION OF LIDAR IN AUTOMOTIVE INDUSTRY
- 6.2 ROLE OF LIDAR TECHNOLOGIES IN AUTOMOTIVE INDUSTRY
  - 6.2.1 MECHANICAL LASER LIDAR
  - 6.2.2 SOLID STATE LIDAR

## **7 LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION**

- 7.1 INTRODUCTION
- 7.2 SEMI-AUTONOMOUS VEHICLE
- 7.3 AUTONOMOUS VEHICLE

## **8 LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY**

- 8.1 INTRODUCTION
- 8.2 SOLID-STATE LIDAR
- 8.3 MECHANICAL /SCANNING LIDAR

## **9 LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE**

- 9.1 INTRODUCTION
- 9.2 2 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION
- 9.3 3 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION

## **10 LIDAR SENSOR AUTOMOTIVE MARKET, BY LOCATION**

- 10.1 INTRODUCTION
- 10.2 BUMPER & GRILL
- 10.3 HEADLIGHT & TAILLIGHT
- 10.4 ROOFS & UPPER PILLARS
- 10.5 OTHERS (WINDSCREEN, REAR VIEW MIRRORS, ETC)

## **11 LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION**

**11.1 INTRODUCTION****11.2 NORTH AMERICA**

## 11.2.1 U.S.

## 11.2.2 CANADA

## 11.2.3 MEXICO

**11.3 EUROPE**

## 11.3.1 GERMANY

## 11.3.2 FRANCE

## 11.3.3 U.K.

## 11.3.4 ITALY

## 11.3.5 REST OF EUROPE

**11.4 ASIA-PACIFIC**

## 11.4.1 CHINA

## 11.4.2 JAPAN

## 11.4.3 INDIA

## 11.4.4 SOUTH KOREA

## 11.4.5 REST OF ASIA-PACIFIC

**11.5 ROW**

## 11.5.1 RUSSIA

## 11.5.2 BRAZIL

## 11.5.3 ROW OTHERS

**12 COMPETITIVE LANDSCAPE****12.1 COMPETITIVE SITUATION & TRENDS****12.2 NEW PRODUCT LAUNCHES****12.3 SUPPLY CONTRACTS/AGREEMENTS/**

## 12.3.1 COLLABORATIONS/PARTNERSHIPS/JOINT VENTURES

## 12.3.2 EXPANSIONS, MERGERS &amp; ACQUISITIONS

**13 COMPANY PROFILES**

(Business Overview, Products offered, Key Insights, Recent Developments, SWOT analysis, MnM View)\*

**13.1 DELPHI AUTOMOTIVE PLC****13.2 CONTINENTAL AG****13.3 ZF FRIEDRICHSHAFEN AG**



- 13.4 INFINEON TECHNOLOGIES AG
- 13.5 VELODYNE LIDAR, INC
- 13.6 TEXAS INSTRUMENTS INCORPORATED
- 13.7 FIRST SENSOR AG

\*Details on Business Overview, Products offered, Key Insights, Recent Developments, SWOT analysis, MnM View might not be captured in case of unlisted companies.

## **14 KEY INNOVATORS**

- 14.1 INTRODUCTION
- 14.2 LEDDARTECH INC.,
  - 14.2.1 COMPANY OVERVIEW
  - 14.2.2 KEY INNOVATION
  - 14.2.3 IMPACT OF INNOVATION ON LIDAR MARKET
- 14.3 QUANERGY SYSTEM INC.
  - 14.3.1 COMPANY OVERVIEW
  - 14.3.2 KEY INNOVATION
  - 14.3.3 IMPACT OF INNOVATION ON LIDAR MARKET
- 14.4 INNOVIZ TECHNOLOGIES LTD.
  - 14.4.1 COMPANY OVERVIEW
  - 14.4.2 KEY INNOVATION
  - 14.4.3 IMPACT OF INNOVATION ON LIDAR MARKET

## **15 APPENDIX**

- 15.1 KEY INSIGHTS OF INDUSTRY EXPERTS
- 15.2 DISCUSSION GUIDE
- 15.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 15.4 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE
- 15.5 AVAILABLE CUSTOMIZATIONS
  - 15.5.1 AUTOMOTIVE LIDAR MARKET, BY APPLICATION, BY COUNTRY
  - 15.5.2 COMPANY INFORMATION
    - 15.5.2.1 Profiling of additional market players (Up to 3)
- 15.6 RELATED REPORTS
- 15.7 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

Table 1	AMERICAN DOLLAR EXCHANGE RATES (PER 1 USD)
Table 2	LUXURY VEHICLE SALES OF KEY MANUFACTURERS, INDIA, 2013–2015
Table 3	LUXURY VEHICLE SALES OF KEY MANUFACTURERS, CHINA, 2013–2015
Table 4	ADVANTAGES OVER CURRENT TECHNOLOGIES IN THE INDUSTRY
Table 5	LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY
Table 6	LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE
Table 7	LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE
Table 8	LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION
Table 9	TECHNOLOGICAL SUPERIORITY OF LIDAR IN AUTOMOTIVE APPLICATIONS
Table 10	REGULATIONS FOR DRIVER ASSISTANCE SYSTEMS
Table 11	AUTONOMOUS DRIVING ATTEMPTS AMONG AUTOMAKERS
Table 12	PORTER’S FIVE FORCES ANALYSIS
Table 13	LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION, 2023–2030 (’000 UNITS)
Table 14	LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION, 2023–2030 (USD MILLION)
Table 15	SEMI-AUTONOMOUS VEHICLE: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (’000 UNITS)
Table 16	SEMI-AUTONOMOUS VEHICLE: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)
Table 17	AUTONOMOUS VEHICLE: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023– 2030 (’000 UNITS)
Table 18	AUTONOMOUS VEHICLE: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)
Table 19	LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY, 2023–2030 (’000 UNITS)
Table 20	LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY, 2023–2030 (USD MILLION)
Table 21	SOLID-STATE LIDAR: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (’000 UNITS)
Table 22	SOLID-STATE LIDAR: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)
Table 23	MECHANICAL/SCANNING LIDAR: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 (’000 UNITS)

Table 24 MECHANICAL/SCANNING LIDAR: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)

Table 25 LIDAR SENSOR AUTOMOTIVE MARKET, PRODUCT SPECIFICATION

Table 26 LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE, 2023–2030 ('000 UNITS)

Table 27 LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE, 2023–2030 (USD MILLION)

Table 28 2 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 ('000 UNITS)

Table 29 2 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)

Table 30 3 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 ('000 UNITS)

Table 31 3 DIMENSIONAL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)

Table 32 LIDAR SENSOR AUTOMOTIVE MARKET, BY LOCATION, 2023–2030 ('000 UNITS)

Table 33 LIDAR SENSOR AUTOMOTIVE MARKET, BY LOCATION, 2023–2030 (USD MILLION)

Table 34 BUMPER & GRILL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 ('000 UNITS)

Table 35 BUMPER & GRILL: LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)

Table 36 HEADLIGHT & TAILLIGHT: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 ('000 UNITS)

Table 37 HEADLIGHT & TAILLIGHT: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 (USD MILLION)

Table 38 ROOFS & UPPER PILLARS: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 ('000 UNITS)

Table 39 ROOFS & UPPER PILLARS: LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 (USD MILLION)

Table 40 OTHERS (WINDSCREEN, REAR VIEW MIRRORS, ETC): LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 ('000 UNITS)

Table 41 OTHERS (WINDSCREEN, REAR VIEW MIRRORS, ETC): LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY REGION, 2023–2030 (USD MILLION)

Table 42 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 ('000' UNITS)

Table 43 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION, 2023–2030 (USD MILLION)

Table 44 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 ('000' UNITS)

Table 45 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 (USD MILLION)

Table 46 NORTH AMERICA LIDAR MARKET, BY COUNTRY, 2023–2030 ('000 UNITS)

Table 47 NORTH AMERICA LIDAR MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

Table 48 U.S.: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 ('000 UNITS)

Table 49 U.S.: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 (USD MILLION)

Table 50 CANADA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 ('000 UNITS)

Table 51 CANADA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 (USD MILLION)

Table 52 MEXICO: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 ('000 UNITS)

Table 53 MEXICO: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023–2030 (USD MILLION)

Table 54 EUROPE: LIDAR SENSOR AUTOMOTIVE MARKET, BY COUNTRY, 2023–2030 ('000 UNITS)

Table 55 EUROPE: LIDAR SENSOR AUTOMOTIVE MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

Table 56 GERMANY: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 - 2030 ('000 UNITS)

Table 57 GERMANY: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 - 2030 (USD MILLION)

Table 58 FRANCE: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 - 2030 ('000 UNITS)

Table 59 FRANCE: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 60 U.K.: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 61 U.K.: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 62 ITALY: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 63 ITALY: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023

– 2030 (USD MILLION)

Table 64 REST OF EUROPE: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 65 REST OF EUROPE: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 66 ASIA-PACIFIC: LIDAR SENSOR AUTOMOTIVE MARKET, BY COUNTRY, 2025–2030 ('000 UNITS)

Table 67 ASIA-PACIFIC: LIDAR SENSOR AUTOMOTIVE MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

Table 68 CHINA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 69 CHINA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 70 JAPAN: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 71 JAPAN: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 72 INDIA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 73 INDIA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 74 SOUTH KOREA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 75 SOUTH KOREA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 76 REST OF ASIA-PACIFIC: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 77 REST OF ASIA-PACIFIC: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 78 ROW: LIDAR SENSOR AUTOMOTIVE MARKET, BY TECHNOLOGY, 2023 – 2030 ('000 UNITS)

Table 79 ROW: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 80 RUSSIA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 81 RUSSIA: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 82 BRAZIL: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 83 BRAZIL: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 84 ROW OTHERS: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 ('000 UNITS)

Table 85 ROW OTHERS: LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE, 2023 – 2030 (USD MILLION)

Table 86 NEW PRODUCT DEVELOPMENT, 2016–2017

Table 87 SUPPLY CONTRACTS/COLLABORATIONS/PARTNERSHIPS/JOINT VENTURES, 2016–2017

Table 88 MERGERS & ACQUISITIONS, 2014–2017

Table 89 DELPHI AUTOMOTIVE PLC: KEY FINANCIALS

Table 90 CONTINENTAL AG: KEY FINANCIALS

Table 91 KEY INNOVATORS, INNOVATIONS, AND IMPACT ON LIDAR INDUSTRY

## List Of Figures

### LIST OF FIGURES

Figure 1 SEGMENTATIONS COVERED: LIDAR SENSOR AUTOMOTIVE MARKET

Figure 2 RESEARCH DESIGN

Figure 3 RESEARCH METHODOLOGY MODEL

Figure 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, & REGION

Figure 5 TECHNOLOGICAL ADVANCEMENTS IN VEHICLE AUTOMATION

Figure 6 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY SYSTEM:

### BOTTOM-UP APPROACH

Figure 7 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY SYSTEM: TOP-DOWN APPROACH

Figure 8 EUROPE IS ESTIMATED TO BE THE LARGEST MARKET FOR AUTOMOTIVE LIDAR, 2025 VS 2030 (USD MILLION)

Figure 9 BUMPER & GRILL IS ESTIMATED TO BE THE LARGEST MARKET IN LIDAR SENSOR AUTOMOTIVE MARKET, 2025 VS 2030 (USD MILLION)

Figure 10 SEMI-AUTONOMOUS BASED TECHNOLOGIES DOMINATE THE LIDAR SENSOR AUTOMOTIVE MARKET, 2025 VS 2030 (USD MILLION)

Figure 11 3D IMAGE TYPE IS THE MOST DOMINATING MARKET FOR LIDAR SENSOR AUTOMOTIVE MARKET, 2025 VS 2030 (USD MILLION)

Figure 12 GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET

Figure 13 EUROPE TO HOLD THE LARGEST MARKET SHARE FOR LIDAR SENSOR AUTOMOTIVE MARKET, BY VALUE

Figure 14 BUMPER AND GRILL, BY LOCATION, OF LIDAR, ESTIMATED TO BE THE LARGEST MARKET SHARE FOR GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY VALUE

Figure 15 U.S. IS ESTIMATED TO BE THE FASTEST GROWING MARKET IN LIDAR SENSOR AUTOMOTIVE MARKET, BY VALUE

Figure 16 SOLID STATE LIDAR TO HOLD THE LARGEST SIZE, IN THE GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY VALUE

Figure 17 SEMI-AUTONOMOUS VEHICLE TO HOLD THE LARGEST SIZE, IN THE GLOBAL LIDAR SENSOR AUTOMOTIVE MARKET, BY VALUE

Figure 18 MARKET SEGMENTATION

Figure 19 AUTOMOTIVE LIDAR MARKET, BY TECHNOLOGY

Figure 20 LIDAR SENSOR AUTOMOTIVE MARKET, BY IMAGE TYPE



Figure 21 LIDAR SENSOR AUTOMOTIVE MARKET, BY VEHICLE TYPE

Figure 22 LIDAR SENSOR AUTOMOTIVE MARKET, BY APPLICATION

Figure 23 LIDAR SENSOR AUTOMOTIVE MARKET, BY REGION

Figure 24 MARKET DYNAMICS

Figure 25 ROAD TRAFFIC DEATH RATES, PER 1,00,000 POPULATION, 2015

Figure 26 LEVELS OF AUTONOMOUS DRIVING

Figure 27 LIDAR INTEGRATION IN VEHICLE

Figure 28 PORTER'S FIVE FORCES ANALYSIS

Figure 29 COMPETITIVE RIVALRY IS MEDIUM IN LIDAR SENSOR AUTOMOTIVE MARKET

Figure 30 HUGE CAPITAL REQUIREMENT & HIGH RESEARCH AND DEVELOPMENT COST MAKES THE DEGREE OF COMPETITION LOW IN LIDAR SENSOR AUTOMOTIVE MARKET

Figure 31 NO AVAILABILITY OF DIRECT SUBSTITUTE AND HIGH SWITCHING COST MAKES THE THREAT OF SUBSTITUTE AS LOW

Figure 32 LOW PRODUCT DIFFERENTIATION LED TO MEDIUM BARGAINING POWER OF BUYERS

Figure 33 DEPENDENCE OF SUPPLIERS ON LIDAR INDUSTRY FOR REVENUE HAS LED TO MEDIUM BARGAINING POWER OF SUPPLIERS

Figure 34 HIGH MARKET ATTRACTIVENESS AND CAPITAL NEEDED MAKES THREAT OF NEW ENTRANTS MEDIUM

Figure 35 LIDAR APPLICATIONS IN AUTOMOTIVE INDUSTRY

Figure 36 LIDAR SENSOR AUTOMOTIVE MARKET SIZE, BY APPLICATION: SEMI-AUTONOMOUS VEHICLE TO CONSTITUTE THE LARGEST MARKET SIZE BY VOLUME, 2025 VS 2030

Figure 37 BUMPER & GRILL TO HOLD THE LARGEST MARKET SIZE, BY VALUE, IN THE LIDAR SENSOR AUTOMOTIVE MARKET DURING THE FORECAST PERIOD

Figure 38 LIDAR SENSOR AUTOMOTIVE MARKET OUTLOOK, BY VALUE, BY REGION

Figure 39 NORTH AMERICA: LIDAR SENSOR AUTOMOTIVE MARKET SNAPSHOT

Figure 40 EUROPE: LIDAR SENSOR AUTOMOTIVE MARKET SNAPSHOT

Figure 41 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENT AS THE KEY GROWTH STRATEGY FROM 2014 TO 2016

Figure 42 MARKET EVALUATION FRAMEWORK: NEW PRODUCT DEVELOPMENT FUELED THE LIDAR SENSOR AUTOMOTIVE MARKET GROWTH FROM 2014–2016

Figure 43 BATTLE FOR MARKET SHARE: NEW PRODUCT LAUNCHES WAS THE KEY STRATEGY

Figure 44 DELPHI AUTOMOTIVE PLC: COMPANY SNAPSHOT

Figure 45 DELPHI AUTOMOTIVE PLC: SWOT ANALYSIS



Figure 46 CONTINENTAL AG: COMPANY SNAPSHOT

Figure 47 CONTINENTAL AG: SWOT ANALYSIS

Figure 48 ZF FRIEDRICHSHAFEN AG: COMPANY SNAPSHOT

Figure 49 ZF FRIEDRICHSHAFEN AG: SWOT ANALYSIS

Figure 50 INFINEON TECHNOLOGIES AG: COMPANY SNAPSHOT

Figure 51 INFINEON TECHNOLOGIES AG: SWOT ANALYSIS

Figure 52 VELODYNE LIDAR, INC: SWOT ANALYSIS

Figure 53 TEXAS INSTRUMENTS INCORPORATED: COMPANY SNAPSHOT

Figure 54 FIRST SENSOR AG: COMPANY SNAPSHOT

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