

Lidar Sensors Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Airborne, Terrestrial), By Technology (Solid State LiDAR, Mechanical LiDAR), By Application (Vehicle Automation, Digital Elevation Model, Forest Planning and Management, Environmental Assessment, Transport Planning, Infrastructure Building, Cellular Network Planning, Meteorology, Others), By End Use Industry (Automotive, Oil & Gas, IT & Communication, Media & Entertainment, Power & Energy, Others), By Region, By Competition, 2019-2029F

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Abstracts

Global Lidar Sensors Market was valued at USD 2.45 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 17.8% through 2029. The global Lidar sensors market is experiencing robust growth driven by a confluence of technological advancements and expanding applications across diverse industries. Lidar, an acronym for Light Detection and Ranging, has emerged as a pivotal technology for precise 3D mapping and sensing. The automotive sector is a major catalyst for this growth, with the rising demand for autonomous vehicles and advanced driver-assistance systems (ADAS). Lidar sensors play a crucial role in enhancing the accuracy and reliability of these systems by providing real-time, high-resolution spatial data.

Furthermore, industries such as agriculture, urban planning, and environmental monitoring are increasingly leveraging Lidar technology for terrain mapping, crop management, and resource assessment. The adoption of Lidar in robotics and industrial automation is also contributing significantly to market expansion, facilitating navigation, object detection, and manipulation tasks.

Technological advancements, including the development of solid-state Lidar sensors and improvements in range, resolution, and cost-effectiveness, are key factors fueling market growth. As the world witnesses a paradigm shift towards smarter and more connected environments, the demand for Lidar sensors is expected to continue its upward trajectory, fostering innovation and transformative solutions across various sectors. The global Lidar sensors market presents a landscape of dynamic opportunities as industries capitalize on the capabilities of Lidar for precise and efficient spatial data acquisition.

Key Market Drivers

Autonomous Vehicles and Advanced Driver-Assistance Systems (ADAS)

The burgeoning market for Lidar sensors is intricately linked to the accelerating growth of autonomous vehicles and Advanced Driver-Assistance Systems (ADAS). As the automotive industry pivots towards self-driving technologies, Lidar emerges as a critical enabler, providing real-time, high-precision spatial data that is essential for navigation, object detection, and collision avoidance. Lidar sensors play a pivotal role in enhancing the safety and reliability of autonomous vehicles by offering a 360-degree view of the surroundings, overcoming challenges posed by varying environmental conditions. This driver is underpinned by the imperative need for robust sensing technologies, reflecting a paradigm shift towards a future where vehicles increasingly rely on Lidar to navigate complex and dynamic road environments, fueling the sustained growth of the global Lidar sensors market.

Precision Agriculture and Crop Management

The global Lidar sensors market is experiencing a significant boost from the agriculture sector, particularly in the realm of precision agriculture and crop management. Lidar technology provides farmers with detailed 3D maps of their fields, enabling precise monitoring and management of crops. By offering insights into topography, soil health, and crop characteristics, Lidar aids in optimizing resource allocation, improving yield, and reducing environmental impact. This driver is fueled by the growing need for

sustainable and efficient farming practices, as Lidar-equipped drones and ground-based systems become indispensable tools for modern agriculture. As the agriculture industry embraces smart farming solutions, the demand for Lidar sensors continues to rise, showcasing the technology's transformative impact on optimizing food production and resource utilization globally.

Urban Planning and Smart Cities

In the realm of urban planning and the development of smart cities, Lidar sensors emerge as a fundamental driver reshaping the landscape of urban environments. Lidar's ability to generate detailed and accurate 3D maps facilitates comprehensive urban planning, infrastructure development, and the implementation of smart city initiatives. From traffic management to disaster preparedness, Lidar technology offers invaluable insights for creating efficient, sustainable, and resilient urban spaces. This driver is propelled by the global trend towards urbanization and the increasing recognition of Lidar as an indispensable tool for creating intelligent and connected cities. As governments and municipalities prioritize smart city initiatives, the demand for Lidar sensors is poised to surge, powering the evolution of urban landscapes into technologically advanced and responsive entities.

Environmental Monitoring and Climate Change Studies

The global Lidar sensors market is witnessing a notable upswing due to the escalating demand for environmental monitoring and climate change studies. Lidar technology, with its capacity for high-resolution mapping and precise data collection, is instrumental in assessing and mitigating environmental risks. From monitoring deforestation and assessing biodiversity to measuring atmospheric conditions and ice cap changes, Lidar sensors provide critical data for scientific research and policymaking. This driver is propelled by a growing awareness of environmental challenges and the need for advanced technologies to monitor, understand, and address the impact of human activities on the planet. As environmental concerns take center stage, Lidar sensors are increasingly recognized as essential tools for facilitating sustainable practices and informed decision-making in the face of global climate change.

Industrial Automation and Robotics

The advent of Lidar sensors has ushered in a new era of possibilities in industrial automation and robotics, serving as a key driver for the technology's global market expansion. Lidar's capabilities in precise mapping and object detection make it an

indispensable component in the development of autonomous robots and automated manufacturing systems. These sensors enable robots to navigate complex environments, avoid obstacles, and execute tasks with unparalleled accuracy. This driver is fueled by the growing emphasis on efficiency, productivity, and safety in industrial settings, as businesses increasingly integrate Lidar-equipped robots into their operations. As industries embrace Industry 4.0 and automation becomes a cornerstone of manufacturing processes, the demand for Lidar sensors is set to soar, driving innovation and transforming the landscape of industrial automation globally.

Key Market Challenges

Cost and Affordability

One of the primary challenges facing the global Lidar sensors market is the issue of cost and affordability. Despite their transformative capabilities, Lidar sensors are often associated with a relatively high manufacturing and deployment cost. This cost challenge has implications across various industries, particularly in sectors where tight budget constraints may limit widespread adoption. The expense of Lidar technology has been a significant barrier, especially for small and medium-sized enterprises (SMEs) and industries operating within constrained financial parameters. Overcoming this challenge is crucial for achieving broader market penetration and ensuring that the benefits of Lidar technology are accessible to a more extensive range of applications. Manufacturers and innovators within the Lidar sector are actively working on developing cost-effective solutions, such as solid-state Lidar and economies of scale, to address this challenge and unlock the full potential of Lidar across diverse industries.

Standardization and Interoperability

The global Lidar sensors market grapples with the challenge of standardization and interoperability, particularly as the technology finds applications in varied industries and sectors. The absence of universally accepted standards for Lidar data formats, processing algorithms, and communication protocols hinders seamless integration across different systems and platforms. This lack of standardization complicates efforts to create interoperable Lidar solutions that can easily interface with other sensor technologies and data ecosystems. Addressing this challenge is crucial for fostering a more cohesive and collaborative environment, enabling the effective combination of Lidar data with other sensor inputs, and ensuring the seamless functionality of integrated systems. Industry stakeholders, including standardization bodies and technology developers, are actively engaged in efforts to establish common standards,

but the complex and interdisciplinary nature of Lidar technology poses an ongoing challenge to achieving widespread compatibility.

Regulatory and Privacy Concerns

Regulatory and privacy concerns pose a significant challenge to the global Lidar sensors market, particularly in applications such as autonomous vehicles and urban surveillance. The use of Lidar sensors involves the collection of vast amounts of spatial data, raising questions about data ownership, security, and individual privacy. Striking a balance between leveraging the benefits of Lidar technology for improved safety and efficiency and addressing legitimate concerns related to data governance is a complex challenge. The absence of clear and standardized regulations governing the use of Lidar across different industries and regions creates uncertainty for businesses and raises ethical considerations. Stakeholders, including government bodies, industry associations, and technology developers, face the challenge of collaboratively developing robust regulatory frameworks that not only ensure the responsible use of Lidar technology but also foster innovation and its positive societal impact.

Environmental Impact

While Lidar sensors contribute significantly to environmental monitoring and climate change studies, the manufacturing and disposal of these devices present an environmental challenge. The production of Lidar sensors involves the use of materials with environmental implications, and the electronic waste generated as these sensors reach the end of their lifecycle requires careful management. Balancing the environmental benefits derived from Lidar applications with the ecological footprint associated with their production and disposal is a pressing challenge. Sustainable manufacturing practices, recycling initiatives, and the development of eco-friendly materials are integral aspects of addressing this challenge. The Lidar industry must actively collaborate to minimize its environmental impact, aligning with broader global efforts towards sustainability and responsible technological innovation. As environmental awareness grows, mitigating the ecological footprint of Lidar sensors becomes imperative to ensure the long-term viability and acceptance of this technology in a world increasingly focused on sustainable practices.

Key Market Trends

Integration of Lidar with Other Sensing Technologies

A notable trend shaping the global Lidar sensors market is the increasing integration of Lidar with other sensing technologies. This convergence of different sensor modalities, such as radar and cameras, aims to enhance the overall perception capabilities of systems across various industries. In autonomous vehicles, for instance, the fusion of Lidar with radar and vision sensors enables a more comprehensive and robust sensing suite. This trend is driven by the recognition that a multi-sensor approach can address the limitations of individual sensors, providing a more reliable and accurate perception of the environment. As industries seek to deploy increasingly sophisticated sensing systems, the trend of integrating Lidar with complementary technologies is poised to continue, fostering innovation and advancing the capabilities of autonomous vehicles, robotics, and smart infrastructure.

Miniaturization and Solid-State Lidar

The global Lidar sensors market is witnessing a trend towards miniaturization and the development of solid-state Lidar solutions. Traditional mechanical Lidar systems involve moving parts, which can be bulky and susceptible to wear and tear. In response, the industry is actively pursuing solid-state Lidar technologies that eliminate the need for mechanical components, resulting in more compact, durable, and cost-effective solutions. This trend is crucial for expanding the applicability of Lidar in various sectors, including consumer electronics, wearables, and drones, where size, weight, and power consumption are critical factors. The ongoing miniaturization and solid-state Lidar trend reflect the industry's commitment to overcoming traditional limitations and making Lidar technology more accessible and versatile.

Increased Adoption in Smart Cities and Infrastructure Development

A significant market trend is the escalating adoption of Lidar sensors in smart cities and infrastructure development projects globally. Urban planners and policymakers are leveraging Lidar's high-precision mapping capabilities for efficient city planning, traffic management, and the development of smart infrastructure. Lidar plays a pivotal role in creating digital twins of urban environments, enabling real-time monitoring and optimization of city systems. This trend is driven by the growing emphasis on sustainability, resilience, and the need for data-driven decision-making in urban development. As smart city initiatives gain traction, the demand for Lidar sensors is rising, with applications ranging from intelligent transportation systems to disaster preparedness, underscoring Lidar's integral role in shaping the urban landscapes of the future.

Advancements in Signal Processing and Artificial Intelligence (AI)

The global Lidar sensors market is experiencing a trend marked by significant advancements in signal processing and artificial intelligence (AI) applications. As the volume of Lidar data increases, efficient processing becomes paramount for extracting meaningful insights. The integration of advanced signal processing techniques and AI algorithms enables Lidar systems to not only capture high-resolution spatial data but also analyze and interpret this information in real-time. This trend is crucial for enhancing the capabilities of Lidar across industries, from improving object recognition in autonomous vehicles to enabling predictive maintenance in industrial settings. The marriage of Lidar technology with sophisticated signal processing and AI signifies a shift towards more intelligent and autonomous systems, unlocking new possibilities for automation, efficiency, and decision-making in diverse applications.

Expansion of Lidar Applications in Environmental Monitoring

A noteworthy trend in the global Lidar sensors market is the expanding scope of applications in environmental monitoring and conservation efforts. Lidar's ability to provide detailed 3D maps and high-resolution data is increasingly valuable in assessing and mitigating environmental challenges. This trend is evident in forestry management, where Lidar aids in precise mapping of forested areas for sustainable resource management. Additionally, Lidar is employed in climate change studies, helping scientists monitor changes in landscapes, ice caps, and vegetation. The trend reflects a growing awareness of the importance of environmental stewardship, with Lidar technology serving as a critical tool for gathering actionable data in the fight against climate change and the preservation of biodiversity. As environmental concerns continue to escalate globally, the expansion of Lidar applications in environmental monitoring is expected to gain momentum, contributing to sustainable practices and informed decision-making.

Segmental Insights

Type Insights

Terrestrial Lidar segment emerged as the dominant force in the global Lidar sensors market and is poised to maintain its supremacy throughout the forecast period. The Terrestrial Lidar segment, which encompasses ground-based or stationary Lidar systems, has witnessed increased adoption across various industries due to its versatility and applicability in diverse environments. Industries such as urban planning,

construction, forestry, and infrastructure development have been particularly instrumental in driving the demand for Terrestrial Lidar solutions. The terrestrial variant offers the advantage of precise 3D mapping and data acquisition in environments where ground-based installations are feasible, providing high-resolution spatial data for applications such as city modeling, surveying, and monitoring. The terrestrial Lidar's dominance is further fueled by advancements in the technology, including improved range, accuracy, and faster data acquisition capabilities. As the global emphasis on smart cities, infrastructure development, and environmental monitoring continues to grow, the Terrestrial Lidar segment is expected to maintain its dominance, offering robust solutions for real-time, high-precision spatial data acquisition across a spectrum of applications. The flexibility, cost-effectiveness, and expanding use cases of Terrestrial Lidar position it as a key driver in shaping the trajectory of the Lidar sensors market in the foreseeable future.

Technology Insights

Solid State Lidar segment emerged as the dominant force in the global Lidar sensors market and is anticipated to sustain its dominance throughout the forecast period. Solid State Lidar technology has experienced significant advancements, contributing to its widespread adoption across various industries. This type of Lidar is characterized by its compact and durable design, eliminating the need for mechanical components, such as spinning mirrors, which are inherent in traditional Mechanical Lidar systems. The Solid State Lidar segment has gained traction due to its reliability, reduced manufacturing costs, and improved resistance to wear and tear, making it particularly appealing for applications in autonomous vehicles, drones, and consumer electronics. As the automotive industry continues to witness a surge in demand for Lidar sensors to support the development of autonomous driving technologies, Solid State Lidar's compact form factor and enhanced performance position it as the preferred choice. The technology's dominance is expected to persist as ongoing research and development efforts focus on further refining its capabilities, optimizing range, and addressing specific industry requirements. Solid State Lidar's pivotal role in shaping the future of mobility, robotics, and smart technologies positions it as a key driver in the Lidar sensors market, ensuring its continued dominance in the coming years.

Application Insights

Vehicle Automation application segment emerged as the dominant force in the global Lidar sensors market and is poised to maintain its dominance throughout the forecast period. The surge in demand for Lidar sensors within the automotive industry, driven by

the rapid advancement of autonomous vehicles and Advanced Driver-Assistance Systems (ADAS), has been a key factor propelling the Vehicle Automation application to the forefront. Lidar sensors play a pivotal role in providing real-time, high-precision spatial data essential for navigation, obstacle detection, and ensuring the safety of autonomous vehicles. The continuous evolution of vehicle automation technologies, coupled with the increasing integration of Lidar sensors in mainstream automotive applications, is expected to sustain the dominance of the Vehicle Automation segment. As the automotive sector continues its shift towards autonomy, the demand for Lidar sensors in Vehicle Automation applications is anticipated to grow, solidifying its position as a primary driver of the global Lidar sensors market. The ongoing emphasis on enhancing road safety, reducing accidents, and advancing autonomous capabilities reinforces the pivotal role of Lidar sensors in Vehicle Automation and underscores their anticipated dominance in the market for the foreseeable future.

Regional Insights

North America emerged as the dominant region in the global Lidar sensors market and is anticipated to maintain its leadership throughout the forecast period. The region's dominance can be attributed to several factors, including the significant adoption of Lidar technology across various industries, particularly in the automotive and technology sectors. The presence of key market players, technological innovation hubs, and a robust ecosystem supporting research and development activities contribute to North America's supremacy in the Lidar sensors market. The region's early and extensive integration of Lidar in autonomous vehicles, coupled with supportive regulatory frameworks and substantial investments in advanced technologies, positions North America at the forefront of Lidar adoption. The demand for Lidar sensors in applications such as vehicle automation, smart cities, and environmental monitoring further propels the region's dominance. As the market continues to evolve with new applications and technological advancements, North America is expected to maintain its leading position, driven by a combination of industrial expertise, favorable market conditions, and a commitment to harnessing the full potential of Lidar technology across diverse sectors.

Key Market Players

Velodyne Lidar, Inc.

Luminar Technologies, Inc.

Quanergy Solutions, Inc.

Innoviz Technologies Ltd.

LeddarTech Holdings Inc.

Ouster Inc.

Benewake (Beijing) Co., Ltd.

Cepton, Inc.

SICK Inc.

Waymo LLC

Report Scope:

In this report, the Global Lidar Sensors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Lidar Sensors Market,By Type:

oAirborne

oTerrestrial

Lidar Sensors Market,By Technology:

oSolid State LiDAR

oMechanical LiDAR

Lidar Sensors Market,By Application:

oVehicle Automation

oDigital Elevation Model

oForest Planning and Management

- oEnvironmental Assessment

- oTransport Planning

- oInfrastructure Building

- oCellular Network Planning

- oMeteorology

- oOthers

Lidar Sensors Market,By End Use Industry:

- oAutomotive

- oOil Gas

- oIT Communication

- oMedia Entertainment

- oPower Energy

- oOthers

Lidar Sensors Market, By Region:

- oNorth America

 - United States

 - Canada

 - Mexico

- oEurope

France

United Kingdom

Italy

Germany

Spain

Belgium

oAsia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

oSouth America

Brazil

Argentina

Colombia

Chile

Peru

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Lidar Sensors Market.

Available Customizations:

Global Lidar Sensors market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1.PRODUCT OVERVIEW

- 1.1.Market Definition
- 1.2.Scope of the Market
 - 1.2.1.Markets Covered
 - 1.2.2.Years Considered for Study
 - 1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1.Objective of the Study
- 2.2.Baseline Methodology
- 2.3.Formulation of the Scope
- 2.4.Assumptions and Limitations
- 2.5.Sources of Research
 - 2.5.1.Secondary Research
 - 2.5.2.Primary Research
- 2.6.Approach for the Market Study
 - 2.6.1.The Bottom-Up Approach
 - 2.6.2.The Top-Down Approach
- 2.7.Methodology Followed for Calculation of Market Size Market Shares
- 2.8.Forecasting Methodology
 - 2.8.1.Data Triangulation Validation

3.EXECUTIVE SUMMARY

4.IMPACT OF COVID-19 ON GLOBAL LIDAR SENSORS MARKET

5.VOICE OF CUSTOMER

6.GLOBAL LIDAR SENSORS

7.GLOBAL LIDAR SENSORS MARKET OUTLOOK

- 7.1.Market Size Forecast
 - 7.1.1.By Value
- 7.2.Market Share Forecast

- 7.2.1.By Type (Airborne, Terrestrial)
- 7.2.2.By Technology (Solid State LiDAR, Mechanical LiDAR)
- 7.2.3.By Application (Vehicle Automation, Digital Elevation Model, Forest Planning and Management, Environmental Assessment, Transport Planning, Infrastructure Building, Cellular Network Planning, Meteorology, Others)
- 7.2.4.By End Use Industry (Automotive, Oil Gas, IT Communication, Media Entertainment, Power Energy, Others)
- 7.2.5.By Region (North America, Europe, South America, Middle East Africa, Asia Pacific)
- 7.3.By Company (2023)
- 7.4.Market Map

8.NORTH AMERICA LIDAR SENSORS MARKETOUTLOOK

- 8.1.Market Size Forecast
 - 8.1.1.By Value
- 8.2.Market Share Forecast
 - 8.2.1.By Type
 - 8.2.2.By Technology
 - 8.2.3.By Application
 - 8.2.4.By End Use Industry
 - 8.2.5.By Country
- 8.3.North America: Country Analysis
 - 8.3.1.United States Lidar Sensors Market Outlook
 - 8.3.1.1.Market Size Forecast
 - 8.3.1.1.1.By Value
 - 8.3.1.2.Market Share Forecast
 - 8.3.1.2.1.By Type
 - 8.3.1.2.2.By Technology
 - 8.3.1.2.3.By Application
 - 8.3.1.2.4.By End Use Industry
 - 8.3.2.Canada Lidar Sensors Market Outlook
 - 8.3.2.1.Market Size Forecast
 - 8.3.2.1.1.By Value
 - 8.3.2.2.Market Share Forecast
 - 8.3.2.2.1.By Type
 - 8.3.2.2.2.By Technology
 - 8.3.2.2.3.By Application
 - 8.3.2.2.4.By End Use Industry

8.3.3.Mexico Lidar Sensors Market Outlook

8.3.3.1.Market Size Forecast

8.3.3.1.1.By Value

8.3.3.2.Market Share Forecast

8.3.3.2.1.By Type

8.3.3.2.2.By Technology

8.3.3.2.3.By Application

8.3.3.2.4.By End Use Industry

9.EUROPE LIDAR SENSORS MARKETOUTLOOK

9.1.Market Size Forecast

9.1.1.By Value

9.2.Market Share Forecast

9.2.1.By Type

9.2.2.By Technology

9.2.3.By Application

9.2.4.By End Use Industry

9.2.5.By Country

9.3.Europe: Country Analysis

9.3.1.Germany Lidar Sensors Market Outlook

9.3.1.1.Market Size Forecast

9.3.1.1.1.By Value

9.3.1.2.Market Share Forecast

9.3.1.2.1.By Type

9.3.1.2.2.By Technology

9.3.1.2.3.By Application

9.3.1.2.4.By End Use Industry

9.3.2.France Lidar Sensors Market Outlook

9.3.2.1.Market Size Forecast

9.3.2.1.1.By Value

9.3.2.2.Market Share Forecast

9.3.2.2.1.By Type

9.3.2.2.2.By Technology

9.3.2.2.3.By Application

9.3.2.2.4.By End Use Industry

9.3.3.United Kingdom Lidar Sensors Market Outlook

9.3.3.1.Market Size Forecast

9.3.3.1.1.By Value

- 9.3.3.2. Market Share Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Technology
 - 9.3.3.2.3. By Application
 - 9.3.3.2.4. By End Use Industry
- 9.3.4. Italy Lidar Sensors Market Outlook
 - 9.3.4.1. Market Size Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share Forecast
 - 9.3.4.2.1. By Type
 - 9.3.4.2.2. By Technology
 - 9.3.4.2.3. By Application
 - 9.3.4.2.4. By End Use Industry
- 9.3.5. Spain Lidar Sensors Market Outlook
 - 9.3.5.1. Market Size Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share Forecast
 - 9.3.5.2.1. By Type
 - 9.3.5.2.2. By Technology
 - 9.3.5.2.3. By Application
 - 9.3.5.2.4. By End Use Industry
- 9.3.6. Belgium Lidar Sensors Market Outlook
 - 9.3.6.1. Market Size Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share Forecast
 - 9.3.6.2.1. By Type
 - 9.3.6.2.2. By Technology
 - 9.3.6.2.3. By Application
 - 9.3.6.2.4. By End Use Industry

10. SOUTH AMERICA LIDAR SENSORS MARKET OUTLOOK

- 10.1. Market Size Forecast
 - 10.1.1. By Value
- 10.2. Market Share Forecast
 - 10.2.1. By Type
 - 10.2.2. By Technology
 - 10.2.3. By Application
 - 10.2.4. By End Use Industry

10.2.5.By Country

10.3.South America: Country Analysis

10.3.1.Brazil Lidar Sensors Market Outlook

10.3.1.1.Market Size Forecast

10.3.1.1.1.By Value

10.3.1.2.Market Share Forecast

10.3.1.2.1.By Type

10.3.1.2.2.By Technology

10.3.1.2.3.By Application

10.3.1.2.4.By End Use Industry

10.3.2.Colombia Lidar Sensors Market Outlook

10.3.2.1.Market Size Forecast

10.3.2.1.1.By Value

10.3.2.2.Market Share Forecast

10.3.2.2.1.By Type

10.3.2.2.2.By Technology

10.3.2.2.3.By Application

10.3.2.2.4.By End Use Industry

10.3.3.Argentina Lidar Sensors Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1.By Type

10.3.3.2.2.By Technology

10.3.3.2.3.By Application

10.3.3.2.4.By End Use Industry

10.3.4.Chile Lidar Sensors Market Outlook

10.3.4.1.Market Size Forecast

10.3.4.1.1.By Value

10.3.4.2.Market Share Forecast

10.3.4.2.1.By Type

10.3.4.2.2.By Technology

10.3.4.2.3.By Application

10.3.4.2.4.By End Use Industry

10.3.5.Peru Lidar Sensors Market Outlook

10.3.5.1.Market Size Forecast

10.3.5.1.1.By Value

10.3.5.2.Market Share Forecast

10.3.5.2.1.By Type

- 10.3.5.2.2.By Technology
- 10.3.5.2.3.By Application
- 10.3.5.2.4.By End Use Industry

11.MIDDLE EAST AFRICA LIDAR SENSORS MARKETOUTLOOK

- 11.1.Market Size Forecast
 - 11.1.1.By Value
- 11.2.Market Share Forecast
 - 11.2.1.By Type
 - 11.2.2.By Technology
 - 11.2.3.By Application
 - 11.2.4.By End Use Industry
 - 11.2.5.By Country
- 11.3.Middle East Africa: Country Analysis
 - 11.3.1.Saudi Arabia Lidar Sensors Market Outlook
 - 11.3.1.1.Market Size Forecast
 - 11.3.1.1.1.By Value
 - 11.3.1.2.Market Share Forecast
 - 11.3.1.2.1.By Type
 - 11.3.1.2.2.By Technology
 - 11.3.1.2.3.By Application
 - 11.3.1.2.4.By End Use Industry
 - 11.3.2.UAE Lidar Sensors Market Outlook
 - 11.3.2.1.Market Size Forecast
 - 11.3.2.1.1.By Value
 - 11.3.2.2.Market Share Forecast
 - 11.3.2.2.1.By Type
 - 11.3.2.2.2.By Technology
 - 11.3.2.2.3.By Application
 - 11.3.2.2.4.By End Use Industry
 - 11.3.3.South Africa Lidar Sensors Market Outlook
 - 11.3.3.1.Market Size Forecast
 - 11.3.3.1.1.By Value
 - 11.3.3.2.Market Share Forecast
 - 11.3.3.2.1.By Type
 - 11.3.3.2.2.By Technology
 - 11.3.3.2.3.By Application
 - 11.3.3.2.4.By End Use Industry

11.3.4.Turkey Lidar Sensors Market Outlook

11.3.4.1.Market Size Forecast

11.3.4.1.1.By Value

11.3.4.2.Market Share Forecast

11.3.4.2.1.By Type

11.3.4.2.2.By Technology

11.3.4.2.3.By Application

11.3.4.2.4.By End Use Industry

11.3.5.Israel Lidar Sensors Market Outlook

11.3.5.1.Market Size Forecast

11.3.5.1.1.By Value

11.3.5.2.Market Share Forecast

11.3.5.2.1.By Type

11.3.5.2.2.By Technology

11.3.5.2.3.By Application

11.3.5.2.4.By End Use Industry

12.ASIA PACIFIC LIDAR SENSORS MARKET OUTLOOK

12.1.Market Size Forecast

12.1.1.By Value

12.2.Market Share Forecast

12.2.1.By Type

12.2.2.By Technology

12.2.3.By Application

12.2.4.By End Use Industry

12.2.5.By Country

12.3.Asia-Pacific: Country Analysis

12.3.1.China Lidar Sensors Market Outlook

12.3.1.1.Market Size Forecast

12.3.1.1.1.By Value

12.3.1.2.Market Share Forecast

12.3.1.2.1.By Type

12.3.1.2.2.By Technology

12.3.1.2.3.By Application

12.3.1.2.4.By End Use Industry

12.3.2.India Lidar Sensors Market Outlook

12.3.2.1.Market Size Forecast

12.3.2.1.1.By Value

- 12.3.2.2. Market Share Forecast
 - 12.3.2.2.1. By Type
 - 12.3.2.2.2. By Technology
 - 12.3.2.2.3. By Application
 - 12.3.2.2.4. By End Use Industry
- 12.3.3. Japan Lidar Sensors Market Outlook
 - 12.3.3.1. Market Size Forecast
 - 12.3.3.1.1. By Value
 - 12.3.3.2. Market Share Forecast
 - 12.3.3.2.1. By Type
 - 12.3.3.2.2. By Technology
 - 12.3.3.2.3. By Application
 - 12.3.3.2.4. By End Use Industry
- 12.3.4. South Korea Lidar Sensors Market Outlook
 - 12.3.4.1. Market Size Forecast
 - 12.3.4.1.1. By Value
 - 12.3.4.2. Market Share Forecast
 - 12.3.4.2.1. By Type
 - 12.3.4.2.2. By Technology
 - 12.3.4.2.3. By Application
 - 12.3.4.2.4. By End Use Industry
- 12.3.5. Australia Lidar Sensors Market Outlook
 - 12.3.5.1. Market Size Forecast
 - 12.3.5.1.1. By Value
 - 12.3.5.2. Market Share Forecast
 - 12.3.5.2.1. By Type
 - 12.3.5.2.2. By Technology
 - 12.3.5.2.3. By Application
 - 12.3.5.2.4. By End Use Industry
- 12.3.6. Indonesia Lidar Sensors Market Outlook
 - 12.3.6.1. Market Size Forecast
 - 12.3.6.1.1. By Value
 - 12.3.6.2. Market Share Forecast
 - 12.3.6.2.1. By Type
 - 12.3.6.2.2. By Technology
 - 12.3.6.2.3. By Application
 - 12.3.6.2.4. By End Use Industry
- 12.3.7. Vietnam Lidar Sensors Market Outlook
 - 12.3.7.1. Market Size Forecast

- 12.3.7.1.1.By Value
- 12.3.7.2.Market Share Forecast
 - 12.3.7.2.1.By Type
 - 12.3.7.2.2.By Technology
 - 12.3.7.2.3.By Application
 - 12.3.7.2.4.By End Use Industry

13.MARKET DYNAMICS

- 13.1.Drivers
- 13.2.Challenges

14.MARKET TRENDS AND DEVELOPMENTS

15.COMPANY PROFILES

- 15.1.Velodyne Lidar, Inc.
 - 15.1.1.Business Overview
 - 15.1.2.Key Revenue and Financials
 - 15.1.3.Recent Developments
 - 15.1.4.Key Personnel/Key Contact Person
 - 15.1.5.Key Product/Services Offered
- 15.2.Luminar Technologies, Inc.
 - 15.2.1.Business Overview
 - 15.2.2.Key Revenue and Financials
 - 15.2.3.Recent Developments
 - 15.2.4.Key Personnel/Key Contact Person
 - 15.2.5.Key Product/Services Offered
- 15.3.Quanergy Solutions, Inc.
 - 15.3.1.Business Overview
 - 15.3.2.Key Revenue and Financials
 - 15.3.3.Recent Developments
 - 15.3.4.Key Personnel/Key Contact Person
 - 15.3.5.Key Product/Services Offered
- 15.4.Innoviz Technologies Ltd.
 - 15.4.1.Business Overview
 - 15.4.2.Key Revenue and Financials
 - 15.4.3.Recent Developments
 - 15.4.4.Key Personnel/Key Contact Person

- 15.4.5.Key Product/Services Offered
- 15.5.LeddarTech Holdings Inc.
 - 15.5.1.Business Overview
 - 15.5.2.Key Revenue and Financials
 - 15.5.3.Recent Developments
 - 15.5.4.Key Personnel/Key Contact Person
 - 15.5.5.Key Product/Services Offered
- 15.6.Ouster Inc.
 - 15.6.1.Business Overview
 - 15.6.2.Key Revenue and Financials
 - 15.6.3.Recent Developments
 - 15.6.4.Key Personnel/Key Contact Person
 - 15.6.5.Key Product/Services Offered
- 15.7.Benewake (Beijing) Co., Ltd.
 - 15.7.1.Business Overview
 - 15.7.2.Key Revenue and Financials
 - 15.7.3.Recent Developments
 - 15.7.4.Key Personnel/Key Contact Person
 - 15.7.5.Key Product/Services Offered
- 15.8.Cepton, Inc.
 - 15.8.1.Business Overview
 - 15.8.2.Key Revenue and Financials
 - 15.8.3.Recent Developments
 - 15.8.4.Key Personnel/Key Contact Person
 - 15.8.5.Key Product/Services Offered
- 15.9.SICK Inc.
 - 15.9.1.Business Overview
 - 15.9.2.Key Revenue and Financials
 - 15.9.3.Recent Developments
 - 15.9.4.Key Personnel/Key Contact Person
 - 15.9.5.Key Product/Services Offered
- 15.10.Waymo LLC
 - 15.10.1.Business Overview
 - 15.10.2.Key Revenue and Financials
 - 15.10.3.Recent Developments
 - 15.10.4.Key Personnel/Key Contact Person
 - 15.10.5.Key Product/Services Offered

16.STRATEGIC RECOMMENDATIONS

17.ABOUT US DISCLAIMER

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